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2002 ANNUAL GROUND WATER SAMPLING REPORT

LIVINGSTON RAIL YARD

LIVINGSTON, MONTANA

Submitted to:

Montana Department of Environmental Quality
Remediation Division
Hazardous Waste Site Clean-up Bureau
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Submitted by:

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ENVIROCON

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1.0 EXECUTIVE SUMMARY

This report presents the results of the May and November 2002 ground water sampling events at the Burlington Northern Livingston Shop Complex, which contains the Livingston Rail Yard (LRY) in Livingston, Montana. Subsurface soils contain petroleum hydrocarbons which are present in the smear zone associated with the free-product plume in areas where USTs and piping were removed, and where diesel fuel handling was conducted. Locomotive maintenance and waste-water handling operations also resulted in the presence of chlorinated volatile organic compounds (VOCs) in soils at specific areas around the LRY. In addition, a ground water plume containing dissolved chlorinated VOCs is located beneath and downgradient of the site.

All ground water sampling is conducted according to the Interim Remedial Measures Work Plan (IRMWP), Envirocon, April 1989, and adheres to the ground water sampling schedule approved by the MDEQ in February 1986. The May 2002 annual sampling event included sampling 30 monitoring wells, with all 30 samples analyzed for VOCs. The November 2002 semiannual sampling round included sampling 15 monitoring wells, with all 15 samples analyzed for VOCs.

May and November 2002 ground water samples contained dissolved chlorinated-VOC concentrations that continued to exhibit the long-term declines observed during the past 13 years of site ground water monitoring. In general, ground water VOC concentrations have declined more than 90 percent at the site since May 1989.

Of the 59 wells measured for petroleum free product in May and the 61 wells measured in November, 85% contained less than one-tenth-foot total apparent product thickness. Assuming that apparent product thickness in the monitoring well is 2 to 4 (or more) times the actual thickness, this indicates that the majority of the petroleum free-product plume is less than one inch thick.

Natural attenuation processes occurring at the site include a variety of physical, chemical and biological processes that act to reduce the mass, toxicity, mobility, volume, or concentration of petroleum in soil and ground water. Natural attenuation parameter (NAP) analyses were conducted in the past and, by 1999, sufficient NAP data had been collected to demonstrate that biodegradation is consistently occurring; NAP analyses were therefore discontinued.

2.0 INTRODUCTION

This report is submitted to the Montana Department of Environmental Quality (MDEQ) on behalf of the Burlington Northern and Santa Fe Railway Company (BNSF) by Envirocon. It presents the analytical results of ground water samples and petroleum free-product thickness measurements collected during the May 2002 annual and November 2002 semiannual sampling events at the LRY, Livingston Montana.

The LRY is located in the northeast part of the city of Livingston, Montana, as shown on Figure 1.0. It was constructed in 1883 by the Northern Pacific Railroad (NPRR) and, except for an 18-month period during 1986 and 1987, has operated continuously since that time. Subsurface soils contain petroleum hydrocarbons in the smear zone associated with the free-product plume, in areas where USTs and piping were removed, and where diesel fuel was handled. Locomotive maintenance and waste-water handling has also resulted in the presence of chlorinated VOCs in soils at specific areas around the rail yard. In several places these chlorinated VOCs reached the underlying aquifer and created a plume of dissolved chlorinated VOCs in ground water beneath, and downgradient of, the site.

The Burlington Northern Railroad (BNRR), the successor to NPRR and predecessor to BNSF, began environmental investigations at the LRY in October 1985. Since 1989, the LRY has been investigated and remediated under a Modified Partial Consent Decree (MPCD) between BNRR (later BNSF) and the MDEQ. The MPCD, signed by Charles C. Lovell, U.S. District Judge on April 27, 1990, specifies the process by which the investigation and remediation of environmental conditions at the LRY will proceed. Regularly scheduled ground water monitoring has continued since May 1989.

The LRY is underlain by an alluvial aquifer composed of coarse-grained sand and gravel. This aquifer is herein referred to as the Livingston aquifer. Beneath most of the LRY, the aquifer water table is 15 to 25 feet below ground surface. The saturated thickness of the aquifer ranges from 10 feet to more than 50 feet. The lateral extent of the Livingston Aquifer is depicted on attached Figure 1.1.

Section 3.0 of this report presents the number of samples collected, sample dates, and analytical methods used for the May and November 2002 sampling events. Section 4.0 presents the ground water sample analytical results. Tabulated analytical results are attached, together with figures depicting the lateral distribution of dissolved chlorinated VOCs during both sampling events. The long-term declines in VOC concentrations are illustrated using graphs of chlorinated VOC concentrations from ground water samples collected at specific wells since May 1989.

3.0 ANNUAL & SEMI-ANNUAL GROUND WATER SAMPLING EVENTS

The May and November 2002 sampling events were conducted in accordance with the ground water sampling schedule approved by the MDEQ in February 1996 and presented as Table 1.0. That sampling schedule specifies sampling 28 monitoring and private wells during annual sampling events (May) and 12 monitoring wells during semiannual sampling events (November). A damaged well (MW-8) was removed from the schedule by a faxed communication to MDEQ on November 6, 2000, reducing the scheduled annual sampling locations to 27 wells. Table 1.1 lists the May and November 2002 sample numbers, sample locations, sample dates, and sample analyses.

The May and November 2002 sampling locations are shown on Figure 1.0. Tables 2.0, 3.0, and 4.0 summarize analytical results for tetrachloroethene (PCE); trichloroethene (TCE); and cis-1,2-dichloroethene (DCE), respectively. Figures 2.0 through 7.0 depict the lateral distribution of PCE, TCE, and DCE. Laboratory analytical results are presented in Appendix A. A data validation report is included as Appendix B.

3.1 Sampling Protocol

Sampling protocol was followed as specified in the Interim Remedial Measures Work Plan, Envirocon, April 1989. Four types of wells were sampled:

- City municipal well ('B' Street),
- Private irrigation well containing a submersible pump (Rainbow Motel),

- PVC monitoring wells containing a dedicated bladder pump, or
- PVC monitoring wells (without dedicated pump) which were hand bailed.

All wells, other than the private irrigation well, have locked wellheads. When sampling wells, the wellhead was unlocked, latex gloves were donned, the water level probe was decontaminated, the wellhead was opened, the static water level was measured and recorded, and purging began. Water levels were not measured at operating wells ('B' Street and Rainbow Motel).

Operating wells were purged by opening the sampling tap and purging the tap and associated piping. The 'B' Street well sampling circuit was purged for 5 minutes at a rate of approximately 5 gallons per minute. The Rainbow Motel well does not have a sampling tap, and was purged 'full flow' for several minutes after the discharge piping was disconnected from the well head; at least one hundred gallons were purged in this manner. Parameters (temperature, pH, conductivity, and dissolved oxygen) were not monitored when purging either of the operating wells.

The PVC monitoring wells were purged using the dedicated bladder pumps, where fitted, or by hand-bailing using a disposable bailer. Three well volumes of ground water were removed and parameters reached equilibrium before the sample was collected. Parameters were measured using a flow-through cell, so purge water parameters from hand-bailed wells was not monitored.

Once the wells had been adequately purged, the parameter monitoring system was disconnected and set aside. The samples were collected by directing a gentle stream of ground water into 40-milliliter septum-topped glass vials containing the preservative hydrochloric acid (HCl). The vials were capped and checked for bubbles. If no evidence of headspace was seen, the sample vials were placed on ice in a cooler and subsequently chain-of-custodied and bused to Energy Laboratories in Billings for analysis.

3.2 May 2002 Annual Ground Water Sampling Event

The May 2002 annual ground water sampling event was conducted May 14 through 22. Thirty wells were sampled, as indicated on Table 1.1. Only one of the scheduled wells was

not sampled - Monitoring Well 8 had been damaged and is currently unavailable for sampling. Two wells were added (for this event only) at BNSF's discretion.

Thirty-six samples were analyzed as part of the May 2002 sample event: 30 primary samples, 3 field duplicates, and 3 trip blanks. Twenty-nine of the primary samples were analyzed for VOCs by EPA Method 624, and the municipal well sample was analyzed for VOCs by EPA Method 524.2. All samples were analyzed at Energy Laboratories, Inc. in Billings, Montana. No DEQ representative was present for this sampling event.

3.3 November 2002 Semiannual Ground Water Sampling Event

The November 2002 semiannual sampling round was conducted November 18 through 20. Fifteen monitoring wells were sampled as part of this round. All of the scheduled wells were sampled, plus 3 wells added (for this event only) at BNSF's discretion.

In addition to the 15 primary samples, 2 field duplicates and 1 trip blank were also submitted for analysis. All of the samples were analyzed for VOCs by EPA Method 624 at Energy Laboratories in Billings, Montana. As in May, no DEQ representative was available for the November sampling event.

4.0 SAMPLE RESULTS AND DISCUSSION

This section presents the results of samples collected during the May and November 2002 sampling events. Analytical results for PCE, TCE, cis-DCE, and 'other' volatile organic compounds are presented on Tables 2.0 through 5.0, respectively. Results from the May 2002 sampling event are also presented on Figures 2.0, 4.0, and 6.0, which show the lateral distribution of dissolved PCE, TCE, and cis-DCE concentrations, respectively, during May. Results from the November 2002 sampling event are presented on Figures 3.0, 5.0, and 7.0, which show the lateral distribution of dissolved PCE, TCE, and cis-DCE concentrations during November.

4.1 Ground Water VOC Sample Results

May and November 2002 site ground water samples contained dissolved chlorinated-VOC concentrations consistent with the long-term declines observed during the past 13 years of ground water monitoring. These concentration declines are due to VOC source removal during interim removal actions instituted on the LRY and to natural attenuation. Source control activities were described in the Final Draft Soil and Ground Water Feasibility Study Report, Envirocon, 1998. Additional VOC-source soils were removed from beneath the former vapor degreaser vat (Electric Shop) in 1999-2000.

Figures 2.0 and 3.0 show the distribution of dissolved PCE based on the May and November 2002 sampling events, respectively. PCE is present in a plume extending from the Electric Shop northeastward. Although PCE is detectable over a large area, ground water with PCE concentrations above 50 micrograms-per-liter (ug/l) appears to extend from the Electric Shop, downgradient approximately 3,500 feet. The federal Safe Drinking Water Act (SDWA) maximum contaminant level (MCL) for PCE is 5 ug/l.

Figures 4.0 and 5.0 show the distribution of dissolved TCE based on the May and November 2002 annual sampling events, respectively. Three of the 30 wells sampled during May contained ground water with TCE concentrations above the 5 ug/l MCL. These 3 wells are all situated within the rail yard. During November, only 1 of these 3 wells contained ground water with TCE MCL exceedances; none of the other 12 wells sampled during November contained ground water with TCE exceedances.

Figures 6.0 and 7.0 show the distribution of dissolved cis-DCE based on the May and November 2002 annual sampling events, respectively. Cis-DCE sample concentrations were all significantly below the 70 ug/l MCL during both events.

Ground water samples from 2 monitoring wells contained detectable vinyl chloride during one or both of the 2002 ground water sampling events. Both wells are located within the rail yard limits. The vinyl chloride MCL is 2.0 ug/l. Ground water samples collected from Well L-87-2, located directly downgradient from the WWTP, have consistently contained vinyl chloride concentrations above the MCL. Ground water

samples collected in the last 3 years from Well L-88-10, located ¼ mile further downgradient, have frequently contained detectable vinyl chloride concentrations, but all were significantly below the MCL. It is suspected that this vinyl chloride is created by degradation of cis-1,2-DCE in the hydrocarbon smear zone beneath the WWTP area. Vinyl chloride and other contaminants detected during the May and November ground water sampling events are tabulated on Table 5.0.

No compounds other than PCE, TCE, and vinyl chloride exceeded their respective MCLs in ground water monitoring network samples collected during 1999, 2000, 2001, or 2002. Note that, for compounds of interest in ground water at this site, the MCL standards are currently equivalent to Montana State WQB-7 standards.

4.1.1 MDEQ Split Sample Results

The MDEQ was unavailable to collect split samples from site monitoring wells during either the May or November sampling events.

4.1.2 VOC Concentration Declines

Changes in groundwater sample analyte concentrations were evaluated statistically to ensure that long-term ground water remediation is occurring. Protection of public health is the primary remedial goal, so past ground water sampling reports included well statistical evaluations based on the wells proximity to private property. At the MDEQ's request, PCE analytical results for monitoring wells on, or near, the PCE plume centerline have been added to the statistical evaluation.

"Statgraphics 5 Plus", a powerful statistical software package provided by Manugistics, was used for this evaluation. Analyte concentrations collected to-date from selected wells were tabulated using the Microsoft Excel software program, and these tables were then imported into the Statgraphics program. Numerous options were evaluated; the Box-Cox power transformation regression approach was selected as it gave the "best fit" for the data sets. The Box-Cox transformation is "an analysis that automatically identifies a transformation from a family of power transformations. The analysis determines the appropriate

transformation parameter, Lambda 1, which minimizes the mean squared error ...[of] the fitted model." (excerpt from the Statgraphics 5 Plus manual).

The overall decline in dissolved chlorinated-VOC concentrations is illustrated by plotting VOC concentrations from specific wells between May 1989 and November 2002. Figures 8.0 and 9.0 show TCE and PCE concentration declines in Well L-88-10; Figures 10.0 through 20.0 show PCE concentration declines in Wells 89-4, L-88-13, 92-4, 89-6, 92-2, LS-11, 89-3, L-87-5, 89-9, L-87-3, and 90-3, respectively. Observed PCE concentrations in the 12 wells have declined between 5 and 91 percent since May 1989, with only 1 of the 12 well PCE concentrations declining less than 68%, and 10 of the 12 declining at least 78%.

4.2 Natural Attenuation Parameter Results

Natural attenuation processes occurring at the site include a variety of physical, chemical and biological processes that act to reduce the mass, toxicity, mobility, volume, or concentration of petroleum in soil and ground water. From November 1996 to May 1999, selected wells have been sampled for the natural attenuation parameters dissolved oxygen (DO), nitrate (NO_3), ferrous iron (Fe^{+2}), and methane (CH_4). These parameters indicate the extent of natural biodegradation occurring in the aquifer beneath and around the diesel fuel plume. DO and NO_3 are electron acceptors used by petroleum-degrading bacteria, whereas Fe^{+2} and CH_4 are products of petroleum degradation (MPCA, 1996; Sturman and Meyers, 1997). Under aerobic conditions, biodegradation of hydrocarbons proceeds utilizing oxygen as the terminal electron acceptor. As oxygen is depleted, alternative electron acceptors utilized are, in order of importance, NO_3, manganese (Mn^{+4}), Fe^{+3}, SO_4, and ultimately carbon dioxide (CO_2). Utilization of Fe^{+3} yields soluble Fe^{+2} as a reaction product. Utilization of CO_2 yields CH_4 as a reaction product. The reactants and products of biodegradation that are most easily measured are DO, NO_3, Fe^{+2}, and CH_4; therefore these were the compounds analyzed for during 1996 - 1999 sampling events. NAP analysis was discontinued based on Envirocon's April 28, 2000 letter to the MDEQ.

Past NAP results demonstrate that electron donor concentrations (DO and NO_3) generally drop as ground water moves below the petroleum free-product plume, remain depressed until ground water passes out from beneath the petroleum free-product plume, and then begin to rebound downgradient. In contrast, the NAP results demonstrate that degradation by-product concentrations (Fe^{+2}, CH_4) generally increase as ground water passes beneath

the petroleum free-product plume, remain elevated until ground water passes beyond the petroleum free-product plume, and then drop again downgradient. In summary, past NAP analyses indicate that petroleum-degrading microbes are utilizing the electron acceptors oxygen, CO_2, NO_3, and Fe^{+3} to biodegrade hydrocarbons.

4.3 Free-Product Thickness Measurements

The petroleum free-product plume thickness was measured in monitoring and observation wells during, or soon after, each of the sampling events. Thickness measurements represent the "apparent" free-product thickness, as opposed to the actual thickness. The apparent thickness of petroleum free-product within wells is believed to be at a minimum 2 to 4 times greater than the actual free-product thickness in the surrounding aquifer. This phenomenon was discussed at length in Section 4.0 of the "Livingston Rail Yard Final Remedial Investigation Report", Envirocon, 1994. References consulted in preparing that section include:

- CONCAWE Report No. 3/79: "Protection of Ground Water from Oil Pollution", The Hague, Netherlands, 61 p. de Pastrovich, T.L., Baradat, Y., Barthel, R., Chiarelli, A., and Fussell, D.R.

- "Volume Estimation of Light Nonaqueous Phase Liquid in Porous Media", Ground Water, v. 28, no. 11, pp. 48-56. Farr, A.M., Houghtalen, R.J., and McWhorter, D.B.

- "Determination of a Realistic Estimate of the Actual Formation Product Thickness Using Monitoring Wells: A Field Bailout Test." Proceedings of the Nation Water Well Association of Ground Water Scientists and Engineers and the American Petroleum Institute Conference on Petroleum Hydrocarbons and Organic Chemicals in Ground Water: Prevention, Detection and Restoration, pp. 235-253. Gruszczenski, T.S.

- "Laboratory Investigation of the Relationships Between Apparent and Actual Product Thickness in Sands". Proceedings of the Conference of Petroleum Hydrocarbons and Organic Chemicals in Ground Water: Prevention, Detection and Restoration, Houston Texas, National Water Well Association. Hampton, Duane R., and Miller, Paul D.G.

Table 6.0 shows the Spring and Fall petroleum free-product thickness measurements collected to-date. Figure 21.0 depicts the locations of wells measured for product and calculated apparent product thickness values during both May and November 2002. Of the wells containing measurable free-product, 85% contain less than 0.10-foot total apparent

product thickness. Assuming that apparent product thickness is at least 2 to 4 times the actual thickness, this indicates that the majority of the petroleum free-product plume contains considerably less than 1 inch of free product.

4.4 Ground Water Static Water Level Measurements

The ground water static water levels (SWLs) were measured in monitoring and observation wells during, or soon after, each of the sampling events. These measurements, together with conversions to mean sea level elevations, are presented on Tables 7.0 and 8.0 for May and November, respectively. In converting SWLs for wells which contained free-product, a product density factor of 0.88 was applied to the product thickness.

The calculated elevations were then plotted and elevation contours inferred from the data, thereby creating potentiometric ground water surface maps. These maps are presented for the May and November measurements on Figures 22.0 and 23.0, respectively. The elevation contours indicate that ground water beneath the site generally flowed northeast until it approached the Yellowstone River. During May, ground water near the river appears to have turned slightly northward, while during November, ground water near the river appears to have continued northeastward. East of the Yellowstone River, groundwater appears to flow to the north-northeast during May and northeast during November. Figure 1.1 depicts the approximate area of the Livingston Aquifer and underlying bedrock.

5.0 CONCLUSIONS

This report presents the results of the 13th complete year of ground water sampling at the LRY. The aquifer beneath the LRY contains a free- and residual-hydrocarbon plume and a dissolved chlorinated VOC plume. These two plumes had separate source areas and only partially overlap.

The concentrations of dissolved chlorinated VOCs have declined significantly since 1989. The 2002 ground water monitoring results are consistent with this trend. At many monitoring well locations, the dissolved chlorinated-VOC concentrations have declined as much as 90 percent since 1989.

We can reasonably expect VOC concentrations to continue to decline in wells downgradient of the Livingston Railyard, both west and east of the Yellowstone River. This assumption is based on the dynamic nature of the aquifer, demonstrated natural attenuation of contaminants, and favorable impacts from source removal activities.

The apparent thickness of the petroleum free-product plume has also declined since regularly-scheduled measurements began in 1989. This is, at least in part, due to biodegradation by indigenous microbes. Past measurements of both reactants and products of biodegradation within ground water beneath the petroleum free-product plume reveal that biodegradation is occurring.

REFERENCES:

MPCA, 1996, Assessment of Natural Biodegradation at Petroleum Release Sites; Minnesota Pollution Control Agency Fact Sheet #3.21; May 1996.

Sturman and Meyers, 1997, Intrinsic Bioremediation as a Remedial Option at Petroleum Contaminated Sites; notes and appendices from presentation.

Envirocon, 1998, Final Draft Soil and Ground Water Feasibility Study Report, Livingston Rail Yard, Livingston, Montana. Prepared for the Burlington Northern and Santa Fe Railway Company; January 1998.

TABLES

Table 1.0

Ground Water Monitoring Schedule
Livingston Rail Yard
Livingston, Montana

Sample Location	Semiannual (Nov.)	Annual (May)	Water Level and Product Thickness Measurements (Semiannual)
LB-4			X
LS-6			X
LS-11		X	X
L-87-2	X	X	X
L-87-3		X	X
L-87-4			X
L-87-5	X	X	X
L-87-7			X
L-87-8	X	X	X
L-88-9			X
L-88-10	X	X	X
L-88-13		X	X
1		X	X
2		X	X
3		X	X
4		X	X
5		X	X
6		X	X
7			X
8		X	X
89-1			X
89-2		X	X
89-3	X	X	X
89-4	X	X	X
89-6		X	X
89-7			X
89-9	X	X	X
89-10		X	X
90-2B			X
90-3	X	X	X
92-1	X	X	X
92-2	X	X	X
92-3			X
92-4		X	X
94-1	X	X	X
94-2	X	X	X
95-1			X
B-Street		X	X
Rainbow		X	X
RW-1			X
RW-2			X
RW-3			X
RW-4			X
RW-5			X
RW-6			X
RW-7			X
RW-9			X
HRO-6			X
HRO-7			X
HRO-9			X
HRO-10			X
HRO-11			X
HRO-12			X
HRO-13			X
HRO-14			X
HRO-15			X
HRO-16			X
HRO-19			X
HRO-20			X
HRO-21			X
HRO-22			X
HRO-23			X
HRO-24			X
LBZ-100			X
LG-11			X
LG-12			X

Table 1.1
May and November 2002 Groundwater Samples Collected

Sample Number	Sample Location	Sample Date	Sampling Method	Analytical Method
140101-1794	trip blank	5/14/02	W. Family distilled water	624
140101-1795	L-87-3	5/14/02	dedicated bladder pump	624
140101-1796	L-87-2	5/14/02	dedicated bladder pump	624
140101-1797	L-87-2 duplicate	5/14/02	dedicated bladder pump	624
140101-1798	L-87-5	5/14/02	disposable bailer	624
140101-1799	LS-11	5/14/02	dedicated bladder pump	624
140101-1800	90-3	5/14/02	dedicated bladder pump	624
140101-1801	94-2	5/14/02	dedicated bladder pump	624
140101-1802	92-2	5/14/02	dedicated bladder pump	624
140101-1803	94-1	5/14/02	dedicated bladder pump	624
140101-1804	89-2	5/15/02	dedicated bladder pump	624
140101-1805	92-4	5/15/02	dedicated bladder pump	624
140101-1806	89-4	5/15/02	dedicated bladder pump	624
140101-1807	92-1	5/15/02	dedicated bladder pump	624
140101-1808	'B' Street municipal	5/22/02	tap - municipal well	524.2
140101-1809	89-9	5/15/02	dedicated bladder pump	624
140101-1810	89-3	5/15/02	dedicated bladder pump	624
140101-1811	L-88-10	5/16/02	dedicated bladder pump	624
140101-1812	L-88-13	5/16/02	dedicated bladder pump	624
140101-1813	L-88-13 duplicate	5/16/02	dedicated bladder pump	624
140101-1814	trip blank	5/16/02	W. Family distilled water	624
140101-1815	L-87-8	5/16/02	dedicated bladder pump	624
140101-1816	1	5/16/02	dedicated bladder pump	624
140101-1817	2	5/16/02	dedicated bladder pump	624
140101-1818	4	5/16/02	dedicated bladder pump	624
140101-1819	3	5/16/02	disposable bailer	624
140101-1820	5	5/16/02	dedicated bladder pump	624
140101-1821	O'Connor MW-11	5/16/02	disposable bailer	624
140101-1822	6	5/16/02	dedicated bladder pump	624
140101-1823	89-1	5/17/02	disposable bailer	624
140101-1824	89-10	5/17/02	disposable bailer	624
140101-1825	89-6	5/17/02	disposable bailer	624
140101-1826	O'Connor MW-12	5/17/02	disposable bailer	624
140101-1827	Rainbow Motel	5/22/02	well-head discharge pipe	624
140101-trip blank	trip blank	5/22/02	W. Family distilled water	524.2
140101-1828	'B' Street duplicate	5/22/02	tap - municipal well	524.2
140101-1829	94-1	11/18/02	dedicated bladder pump	601
140101-1830	94-2	11/18/02	dedicated bladder pump	601
140101-1831	92-2	11/18/02	dedicated bladder pump	601
140101-1832	90-3	11/18/02	dedicated bladder pump	601
140101-1833	89-3	11/19/02	dedicated bladder pump	601
140101-1834	89-3 duplicate	11/19/02	dedicated bladder pump	601
140101-1835	89-9	11/19/02	dedicated bladder pump	601
140101-1836	trip blank	11/19/02	W. Family distilled water	601
140101-1837	92-1	11/19/02	dedicated bladder pump	601
140101-1838	L-87-2	11/19/02	dedicated bladder pump	601
140101-1839	89-4	11/19/02	dedicated bladder pump	601
140101-1840	L-87-3	11/19/02	dedicated bladder pump	601
140101-1841	L-88-10	11/19/02	dedicated bladder pump	601
140101-1842	L-87-8	11/19/02	dedicated bladder pump	601
140101-1843	89-1	11/20/02	disposable bailer	601
140101-1844	L-87-5	11/20/02	disposable bailer	601
140101-1845	O'Connor MW-12	11/20/02	disposable bailer	601
140101-1846	O'Cnr MW-12 duplicate	11/20/02	disposable bailer	601

Notes:

624 - EPA Method 624 - VOCs

601 - EPA Method 601– VOCs

524.2 – EPA Method 524.2 - long list VOCs

Table 2.0
PCE Ground Water Concentrations in parts-per-billion

Well	May-89	Jun-89	Jul-89	Aug-89	Sep-89	Oct-89	Nov-89	Dec-89	Jan-90	Feb-90	Mar-90	Apr-90	May-90	Jun-90	Jul-90	Aug-90	Sep-90	Oct-90	Nov-90	Dec-90	Jan-91	Feb-91	Mar-91	Apr-91	May-91	Jun-91	Jul-91	Aug-91	Sep-91	Oct-91	Nov-91	Dec-91
1			0.66	0.62			0.65						<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			1.4	
2			0.7	1.3			0.55			0.51			0.66			0.52			0.62			0.5			<0.5			<0.5			<0.5	
3	0.69			0.74			0.5						<0.5															<0.5			<0.5	
4				<0.5						<0.5			<0.5			<0.5			<0.5									<0.5			<0.5	
5	<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5	
6	7.1	11	7.2	4.9	3.9	4.2	3.6	2.2	2.7	1.4	1.5	1.9	2.6			4.6			4.3			1.3			4			4.2			3.2	
7	33	7.9	0.77	0.5	<0.5	<0.5	0.5	1.7	3.8	7.9	8.6	23	8	2.5		<0.5			<0.5			6.3			29			<0.5			<0.5	
8	180	188	151	126	112	96	123			148			148						93			130			110			64			46	
11			<0.5	<0.5			<0.5						<0.5			<0.5									<0.5			<0.5			<0.5	
89-1										10			18			2.4			2			7.3			17			2.2			1.8	
89-2										<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
89-3										272			270			430	455		310			240			310			410			280	
89-4										530			530	370	192	158	127	200	260			340			330			180			210	
89-5										28			28						32			33			38			29			18	
89-7										32			28						19			17			18			25			18	
89-8										<0.5			<0.5				<0.5											<0.5				
89-9											263		302	400		330			280			230			250			220			190	
89-10													163									160						89				
89-11											<0.5		<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5	
90-1A											407																					
90-1B											385		480																			
90-1C											327																					
90-2A											251																	97				
90-2B											179																					
90-3													76	85		15			18			22			60			14			11	
90-4											<0.5		<0.5															<0.5				
90-5											<0.5		<0.5															<0.5				
90-8																			5.9						2.9							
92-1																																
92-2																																
92-3																																
92-4																																
94-1																																
94-2																																
J Street					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5					
Burns							<0.5																									
Clarence St				<0.5			<0.5																									
O-Street				<0.5								<0.5	<0.5	<0.5		<0.5												<0.5				
Depuy							7.2																									
Geyser TC										<0.5			<0.5			<0.5			<0.5													
HRO-10																																
HRO-12																												71				
HRO-13																												89				
HRO-17																												110				
HRO-19																												<0.5				
I Street	<0.5			<0.5			<0.5			<0.5			<0.5																			
L-87-1	<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5	
L-87-2							1.7	2.3	3.3	4.9	4.1		1.7	2	1.3		2.7	1.7	2.4			1.9			<0.5				0.5	0.53	0.83	
L-87-3	262	183	188	165	206	197	200	147	204	227	215	280	228			100			160			180			170			64			130	
L-87-4	<0.5	<0.5		<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5	
L-87-5	335	350	349	367	361	355	358	270		238	250	310			400							190						160	100		160	
L-87-7			<0.5	<0.5	0.87	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5		<0.5	<0.5			<0.5			<0.5			<0.5			<0.5	<0.5	<0.5	<0.5	
L-87-8	58	32	68	96	104	147	66	73	81	85	95	57	16			48			61			45			12			22	22	4.4	<0.5	
L-88-9	<0.5			<0.5			<0.5			<0.5			<0.5															<0.5				
L-88-10	160		137	165	147	147	165	151	209	147	176		168	112	110	127			176			170			86			45			65	
L-88-11	<0.5			<0.5			<0.5			<0.5			<0.5															<0.5				
L-88-12	255			197			250			171			150						320			180			170			290	180		130	
L-88-13	52	62	69	80	80	88	66	64	55	60	43	88	54			77			68			66			41			64			22	
LB-8																				0.79												
LG-10																																
LS-6	<0.5			<0.5			<0.5						<0.5	<0.5		<0.5			<0.5			<0.5			<0.5			<0.5			<0.5	
LS-7	<0.5			<0.5			<0.5			<0.5			<0.5															<0.5				
LS-8	146	181	136	98	88	98	61	105	128	124	165	130	150	112	110	50			74			180			110			59			45	
LS-10													<0.5			<0.5												<0.5				
LS-11	115	164		23	88	88	12	63	73	88	100	61	86	55		20			13			61			64			45			8	
POTW	73			46			23			64			35			40			23			66			77			38			22	
Q Street	0.66			0.95			0.71			0.5			0.76																			
Rainbow	35						68			35			24			58									19			22				
VE-50																																
Tanner St				<0.5			<0.5																									
O'Conr MW12																			8.5													
O'Conr MW11																			6.2													

Note that, for PCE, the Federal MCL standard = the Montana WQB7 standard = 5 parts-per-billion.

Note 'J' indicates an estimated value, present but less than the limit of quantitation

Table 2.0
PCE Ground Water Concentrations in parts-per-billion

Well	Jan-92	Feb-92	Mar-92	Apr-92	May-92	Aug-92	Nov-92	Feb-93	May-93	Aug-93	Nov-93	Feb-94	May-94	Aug-94	Nov-94	Feb-95	May-95	Aug-95	Nov-95	May-96	Nov-96	May-97	Nov-97	May-98	Dec-98	May-99	Nov-99	May-00	Nov-00	May-01	Nov-01	May-02	Nov-02
1		0 86			1 1		1 0		0 66		1 4		0 68		<0 5		<0 5		<0 5J			<0 5		<0 5		<0 5		<0 5		<0 5		<0 5	
2		1 1			0 77		0 7		0 74		0 81		20		0 73		0 6			<0 5J		<0 5J		<0 5J		<0 5J		<0 5		<0 5		<0 5	
3		0 72							0 69				0 68				<0 5			<0 5J		<0 5				<0 5J		<0 5		<0 5		<0 5	
4		1 0			<0 5				<0 5				0 68				<0 5			<0 5J		<0 5		<0 5J		<0 5		<0 5		<0 5	
5		0 52			<0 5	<0 5	<0 5		0 5	1.1	<0 5	0 63	0 64	0 88	0 63	0 52	<0 5	0 59	0 63	<0 5J		<0 5		<0 5J		<0 5J		<0 5		<0 5		<0 5	
6		1 5			5 2		2 0		3 5		1 8		1 1		1 4		1 2		1.2	1 4		<0 5		0 74		<0 5J		<0 5		<0 5		<0 5	
7		4 0			0 9				8 9				13				9 6		well paved over by City													
8		79			30				70				50				59															
11					<0 5																											
89-1		9 6			6 9				13				6 9				8 8													0 35J	2 7	0 42 J
89-2	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5		<0 5		<0 5		<0 5		<0 5		<0 5		<0 5	
89-3		180	255		260	170	190	170	220	300	180	210	119	245	171	203	241	186	199	205	172	163	204	134	111	130	136	123	154	135	185	104	146
89-4		240			210	160	200	180	150	120	140	150	138	42	121	139	<0 5	103	84	137		87	99	59	86	60	88	87	82	86	77	84	76
89-6		21			32				21				1 0				16			16		12		15		14		9 8		8 3		8 5	
89-7		20			18				14				10				10															
89-8																																
89-9		200			180	170	130	120	41		90	96	80	87	80	85	71	59	62		59	69	58		48	41	46	52	44	45	44	39	40
89-10		116							73								61			55		35		48		36		32		38		43	
89-11		<0 5			<0 5																											
90-1A																																
90-1B																																
90-1C																																
90-2A																																
90-2B									16				62				60															
90-3		12			50				44				33				37			29	12	11	8 4	20	18	17	11	17		18	13	15	15
90-4																																
90-5																																
90-6						0 54	0 72	<0 5	0 5	<0 5	1 1	1 1	<0 5	<0 5	<0 5	<0 5	<0 5	0 76	0 73														
92-1		850			520	220	160	200	470	210	200	86	87	115	69	80	88	124	109	55		85	217	168	60		152	73	117	75	94	74	81
92-2						41	37	31	0 81	7.5	29	32	15	33	29	37	18	24	27	9 7	21		13	8 1	2 4	6 6	15	12	14	5 0	12	11	8 9
92-3						1 2	<0 5	0 54	0 51	1 5	<0 5	<0 5	<0 5	0 82	0 68	0 61	<0 5	0 75	<0 5J														
92-4						2 2	4 1	31	33	2 0	2 5	38	35	1 8	3 5	32	34	2 1	4 4	28		2 4		33		21				35		36	
94-1														2 2	1 8	2 5	2 5	1 5	2 4	1 8	3 6		1 9	1 6	1 8	1 6	1 4	1 5	1 3	1 2	1 5	1 4	1 4
94-2														<0 5	0 65	0 57	<0 5	<0 5J	<0 5J	<0 5J	<0 5J		<0 5J	<0 5J	<1 0	<0 5	<0 5J	<0 5J	<0 5J	0 25J	0 22J	0 23 J	0 28 J
B Street			<0 5	<0 5	<0 5				<0 5								<0 5*			<0 5		<0 5		<0 5		<0 5		<0 5		<0 5		<0 5	
Burns																																
Clarence St																																
D-Street																																
Depuy																																
Geyser TC																																
HRO-10																	<0 5															
HRO-12																																
HRO-13																																
HRO-17					62																											
HRO-19																																
L Street																																
L-87-1		<0 5			<0 5																											
L-87-2		2 2				<0 5	10	1 2	0 78	<0 5		<0 5	<0 5	1 8	0 66	<0 5	<0 5	1 3	1 8	<0 5	<0 5	<0 5	<0 5	<0 5J	<1 0	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5
L-87-3		140			140	80	110	140	88	81	86	100	96	74	92	92	88	69	89	76		44		49		46		54		52	52	50	46
L-87-4		<0 5			<0 5				<0 5				<0 5				<0 5			<0 5		<0 5		<0 5		<0 5		<0 5			
L-87-5		150				160	72	94	70	93	80	75	58	92	77	82	57	61	51	84		69			47					34	35	31	36
L-87-7		<0 5			<0 5				<0 5				<0 5				<0 5					<0 5		<0 5		<0 5		<0 5		<0 5		
L-87-8		16			11	6 2	5 8	6 7	3 5	3 4	5 0	5 2	14	12	8 4	9 1	3 7	2 8	3 9	2 4	2 4	2 5	1.7	3 4	<1 0	1 7	1 7			2 4	1 8	1 2	1 3
L-88-9									<0 5								<0 5															
L-88-10		115				71	81	84	47	39	47	73	45	<0 5	44	56	44	29	40	30	29	19	28	27	23	29	29	24	24	22	28	23	25
L-88-11																																
L-88-12		120			127																											
L-88-13		19			26				21								19			16		15		14		13		11		9 0		8 6	
LB-6																																
LG-10																																
LS-6		1 4			<0 5												<0 5															
LS--7																																
LS-8		74			33	66																										
LS-10		<0 5																														
LS-11		33			28	14	14	35	54	28	4 4	41	35	16			37	14	20	34		25		17		17		14		20		17	
POTW		33			41																											
Q Street																																
Rainbow					20				14				14				11							7 6						4 7	15	4 7	
VE-50																	<0 5															
Werner St																																
O'Conr MW12																														2 5	4 6	2 7
O'Conr MW11																															8 7	

Note 'J' indicates an estimated value, present but less than the limit of quantitation

* - <0 5 is June resample of B St well; original May 95' result was 5 4 ppb validated as "unusable"

Table 3.0
TCE Ground Water Concentrations in parts-per-billion

Well	May-89	Jun-89	Jul-89	Aug-89	Sep-89	Oct-89	Nov-89	Dec-89	Jan-90	Feb-90	Mar-90	Apr-90	May-90	Jun-90	Jul-90	Aug-90	Sep-90	Oct-90	Nov-90	Dec-90	Jan-91	Feb-91	Mar-91	Apr-91	May-91	Jun-91	Jul-91	Aug-91	Sep-91	Oct-91	Nov-91	Dec-91	Jan-92	Feb-92
1			<0.5	<0.5			<0.5						<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5
2			<0.5	<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5
3													<0.5															<0.5			<0.5			<0.5
4							<0.5			<0.5			<0.5			<0.5			<0.5			<0.5						<0.5			<0.5			<0.5
5							<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5
6							<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5
7							<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5
8	9.9	10	8.5	10	5.5	5.1	5.9						9.1						4.1			6.0			8.1			4.5			1.5			3.5
11			<0.5	<0.5			<0.5						<0.5			<0.5									<0.5			<0.5			<0.5			
89-1										0.5			2.2			<0.5			<0.5			<0.5			0.6			<0.5			<0.5			<0.5
89-2										<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
89-3										0.56			0.55			0.73	0.74		0.67			0.91			0.53			1.6			<0.5			0.58
89-4										3.9			4.5	3.5	4.5	3.6	4.2	3.3	4.1			3.5			3.2			4.3			6.0			5.9
89-6										0.86			1.0						0.83			0.87			0.80			1.0			0.80			0.67
89-7										2.5			2.8						1.8			2.3			2.6			1.4			1.8			1.9
89-8										<0.5			<0.5				<0.5											<0.5						
89-9											4.0		8.3	9.0		7.9			6.2			6.5			8.2			13			6.9			6.1
89-10													16									11						8.1						7.8
89-11											<0.5		<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5
90-1A											14																							
90-1B											14		14															12						
90-1C											20																							
90-2A											20																							
90-2B											22																							
90-3													8.8	9.6		12			6.3			4.5			7.3			9.6			4.1			3.0
90-4											<0.5		<0.5															<0.5						
90-5											<0.5		<0.5															<0.5						
90-6																			<0.5						<0.5									
92-1																																		
92-2																																		0.76
92-3																																		
92-4																																		
94-1																																		
94-2																																		
B Street					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5							
Burns							<0.5																											
Clarence St				<0.5			<0.5																											
D-Street				<0.5								<0.5	<0.5	<0.5		<0.5												<0.5						
Depuy							1.3																											
Geyser TC										<0.5			<0.5			<0.5			<0.5															
HRO-10																																		
HRO-12																																		
HRO_13																												7.6						
HRO-17																												15						
HRO-19																												2.8						
L Street	<0.5			<0.5			<0.5			<0.5			<0.5															7.1						
L-87-1	<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5
L-87-2							2.2	3.9	5.6	1.1	1.1		1.1	1.5	1.2		1.3	1.3	2.2			7.0			2.0				8.8	1.5	1.7			1.2
L-87-3	2.2	2.2	1.5	1.7	1.3	1.5	1.5	1.5	1.3	2.2	1.7	2.2	1.3			1.3			1.2			1.5			1.5			1.5			1.5			1.2
L-87-4	<0.5	<0.5		<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<1.0			<0.5			<0.5			<0.5
L-87-5	8.7	1.1	1.5	1.5	1.2	1.3	1.0	6.8		5.1	5.5	1.1			1.4							6.2						1.2	1.2		8.0			5.8
L-87-7				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5			<0.5			<0.5			<0.5			<0.5	<0.5	<0.5	<0.5			<0.5
L-87-8	7.8	4.3	7.3	1.1	1.3	1.0	8.8	1.1	1.2	1.8	1.9	1.7	4.2			1.8			3.8			3.5			4.0			1.2	1.3	7.2	5.9			7.0
L-88-9	<0.5			<0.5			<0.5			<0.5			<0.5															<0.5						
L-88-10	3.1		2.8	3.0	3.0	3.2	2.6	2.2	2.6	2.9	2.7		2.8	2.2	2.5	1.9			1.9			2.1			1.9			2.1			1.8			1.6
L-88-11	<0.5			<0.5			<0.5			<0.5			<0.5															<0.5						
L-88-12	4.9			4.5			4.1			3.8			2.7						3.5			1.8			4.0			2.8	2.9		5.6			2.7
L-88-13	7.6	8.1	1.1	1.4	1.4	1.4	1.2	1.0	1.1	8.6	8.3	7.6	7.2			1.5			1.3			1.2			6.3			1.4			7.7			5.0
LB-6																				<0.5														
LG-10									<0.5	<0.5	<0.5	<0.5	<0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LS-6	<0.5			<0.5			<0.5						<0.5	<0.5		<0.5			<0.5			<0.5			<0.5			<0.5			<0.5			<0.5
LS-7	<0.5			<0.5			<0.5			<0.5			<0.5															<0.5						
LS-8	2.0	1.5	1.1	7.6	6.1	5.7	6.6	1.5	2.2	1.3	1.3	2.5	1.3	1.7	1.1	7.1			5.6			1.5			1.5			7.1			3.7			1.3
LS-10													<0.5			<0.5												<0.5						<0.5
LS-11	1.7	1.5		3.0	2.2	1.3	2.3	1.7	1.5	1.7	1.1	1.3	1.6	1.5		2.2			2.2			1.2			1.2			1.5			9.3			8.6
POTW	8.8			2.1			0.69			7.6			8.8			7.6			0.84			3.5			7.6			7.6			<0.5			2.1
Q Street	<0.5			<0.5			<0.5			<0.5			<0.5																					
Rainbow	5.2						1.2			6.6			4.7			1.5									3.1			1.5						
VE-50																																		
Werner St				<0.5			<0.5																											
O'Conr MW12																			<0.5															
O'Conr MW11																			<0.5															

Note that, for TCE, the Federal MCL standard = the Montana WQB7 standard = 5 parts-per-billion

Note 'J' indicates an estimated value, present but less than the limit of quantitation

Table 3.0
TCE Ground Water Concentrations in parts-per-billion

Well	Mar-92	Apr-92	May-92	Aug-92	Nov-92	Feb-93	May-93	Aug-93	Nov-93	Feb-94	May-94	Aug-94	Nov-94	Feb-95	May-95	Aug-95	Nov-95	May-96	Nov-96	May-97	Nov-97	May-98	Dec-98	May-99	Nov-99	May-00	Nov-00	May-01	Nov-01	May-02	Nov-02
1			<0.5		<0.5		<0.5		<0.5		<0.5		<0.5		<0.5		<0.5			<0.5		<0.5		<0.5		<0.5		<0.5		<0.5	
2			<0.5		<0.5		<0.5		<0.5		0.73		<0.5		<0.5			<0.5		<0.5		<0.5		<0.5		<0.5		<0.5		<0.5	
3							<0.5				<0.5				<0.5			<0.5		<0.5				<0.5		<0.5		<0.5		<0.5	
4			<0.5				<0.5				<0.5				<0.5			<0.5		<0.5		<0.5		<0.5		<0.5		<0.5		<0.5	
5			<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5		<0.5		<0.5		<0.5		<0.5		<0.5	
6			<0.5		<0.5		<0.5		<0.5		<0.5		<0.5		<0.5		<0.5	<0.5		<0.5		<0.5		<0.5		<0.5		<0.5		<0.5	
7			<0.5				0.5				0.5				<0.5																
8			1.4				5.0				2.8				3.2																
11			<0.5																												
89-1			<0.5				0.74				<0.5				<0.5																
89-2	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5		<0.5		<0.5		<0.5		<0.5	<0.5	<0.5	<0.5
89-3	0.59		0.80	0.90	<0.5	0.55	0.78	1.3	0.83	0.63	0.91	1.6	1.1	1.2	1.8	0.73	0.59	1.4	0.82	0.97	2.2	0.70	1.4	1.5	1.2	1.4	1.3	1.8	2.8	1.7	1.4
89-4			4.1	3.2	2.9	2.2	2.0	2.5	1.8	2.0	1.6	2.6	1.8	1.8	1.6	1.6	1.5	1.2		1.1	1.7	1.4	1.6	1.2	1.8	1.4	1.5	1.2	1.5	1.1	1.4
89-6			1.1				0.68				<0.5				<0.5			<0.5J		<0.5J		<0.5J		<0.5J		<0.5		<0.5		<0.5	
89-7			3.4				4.5				<0.5				3.4																
89-8																															
89-9			8.3	9.1	6.3	3.0	7.6		4.1	3.5	2.5	4.1	3.7	2.9	3.4	2.9	2.7		2.4	5.6	4.1		3.0	2.2	2.6	2.4	2.6	1.2	2.3	1.2	2.0
89-10							6.6				5.7				5.1			5.5		4.3		4.9		3.6		3.5		3.1		2.8	
89-11			<0.5																												
90-1A																															
90-1B																															
90-1C																															
90-2A																															
90-2B							4.9				9.0				9.6																
90-3			3.5				4.2				3.0				3.0			2.6	2.1	1.2	2.0	2.0	1.9	1.5	2.0	1.2		0.96	0.82	0.54	0.86
90-4																															
90-5																															
90-6			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5														
92-1			0.80	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5J	<0.5J	<0.5J		<0.5J		1.1	<1.0		<0.5J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
92-2			1.0	8.4	3.8	2.3	<0.5	<0.5	2.5	3.3	2.0	3.8	2.4	2.4	2.1	3.0	3.7	0.67	2.0		1.2	0.57	<1.0	<0.5J	1.3	1.1	0.97	0.38J	0.86	0.76	0.66
92-3				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.8	<0.5	<0.5	<0.5	<0.5	<0.5														
92-4				<0.5	1.1	2.1	2.9	<0.5	0.5	2.0	1.8	<0.5	1.0	2.3	1.8	<0.5	1.0	1.4		<0.5J		1.3		1.1				1.2		1.0	
94-1												<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
94-2													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B Street	<0.5	<0.5	<0.5				<0.5								<0.5			<0.5		<0.5		<0.5		<0.5		<0.5		<0.5		<0.5	
Burns																															
Clarence St																															
D-Street																															
Depuy																															
eyser TC																															
HRO-10															9.9																
HRO-12																															
HRO_13																															
HRO-17			5.3	1.6																											
HRO-19																															
L Street																															
L-87-1			<0.5																												
L-87-2				7.6	1.1	1.8	1.9	6.2		1.3	1.6	8.6	8.3	1.5	1.3	2.9	3.7	1.4	1.9	3.2	4.5	1.1	1.5	6.2	1.1	7.8	1.1	1.1	1.1	9.8	0.68
L-87-3			1.4	9.7	1.1	1.2	1.1	9.8	1.0	1.1	8.7	6.5	7.5	8.5	8.6	6.1	8.8	8.3		7.5		6.8		5.3		5.6		4.8	4.7	4.6	4.2
L-87-4			<0.5				<0.5				<0.5				<0.5			<0.5		<0.5		<0.5		<0.5		<0.5		<0.5			
L-87-5				9.0	4.3	3.2	6.2	6.1	4.8	3.4	2.5	4.9	3.4	2.5	3.2	3.5	3.0	3.4		5.0			3.0					1.1	2.2	1.3	2.2
L-87-7			<0.5				<0.5								<0.5					<0.5		<0.5		<0.5		<0.5		<0.5			
L-87-8			2.6	0.93	0.94	4.4	1.5	1.0	1.9	7.7	5.5	5.6	4.6	1.9	1.6	1.1	1.9	2.2	1.6	0.74	1.1	3.8	4.1	6.1	3.3			5.5	5.6	5.5	3.7
L-88-9							<0.5								<0.5																
L-88-10				1.4	2.0	1.5	1.5	1.4	1.5	1.2	1.1	<0.5	1.2	1.1	1.2	1.2	1.5	1.1	1.6	8.7	1.1	9.1	9.5	8.4	8.7	7.3	7.8	7.2	7.9	8.1	7.9
L-88-11																															
L-88-12			3.4																												
L-88-13			4.9				3.3				2.9				3.4			2.5		2.4		2.3		1.9		1.3		1.4		1.3	
LB-6																															
LG-10	<0.5	<0.5	<0.5																												
LS-6			<0.5				<0.5								<0.5																
LS-7																															
LS-8			1.0	4.7																											
LS-10																															
LS-11			1.1	1.4	1.2	9.0	9.0	8.5	8.8	9.4	7.0	1.1	7.7	7.9	6.3	6.4	6.8	6.8		5.6		6.8		7.2		5.9		4.3		4.0	
POTW			5.0																												
Q Street																															
Rainbow			3.9				1.9				1.8				1.8																
VE-50															1.6													0.87	3.8	0.82	
Werner St																															
O'Conr MW12																													<0.5	<0.5	<0.5
Conr MW11																														0.25 J	

Note 'J' indicates an estimated value, present but less than the limit of quantitation

Table 4.0
Cis-1,2-DCE Ground Water Concentrations in parts-per-billion

Well	May-89	Jun-89	Jul-89	Aug-89	Sep-89	Oct-89	Nov-89	Dec-89	Jan-90	Feb-90	Mar-90	Apr-90	May-90	Jun-90	Jul-90	Aug-90	Sep-90	Oct-90	Nov-90	Dec-90	Jan-91	Feb-91	Mar-91	Apr-91	May-91	Jun-91	Jul-91	Aug-91	Sep-91	Oct-91	Nov-91	Dec-91	Jan-92	Feb-92
1			<1 0	<1 0			<1 0						<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0
2			<1 0	<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0
3	<1 0			<1 0			<1 0						<1 0																					
4				<1 0						<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0
5	<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0
6	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0
7	2 9	1 3	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	1 9	1 1	<1 0		<1 0			<1 0			<1 0			3 8			<1 0			<1 0			<1 0
8	17	24	35	27	19	13	12						24						4 3			7 6			13			7 6			1 2			<1 0
11			<1 0	<1 0			<1 0						<1 0			<1 0									<1 0			<1 0			<1 0			
89-1										<1 0			2 2			<1 0			<1 0			<1 0			1 1			<1 0			<1 0			<1 0
89-2										<1 0	<1 0	<1 0	<1.0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0
89-3										<1 0			<1 0			1 8	1 0		<1 0			<1 0			<1 0			<1 0			<1 0			<1 0
89-4										5 6			6 6	4 8	2 0	1 5	1 3	2 3	3 8			3 6			3 3			1 8			16			13
89-6										1 0			<1 0						<1 0			<1 0			<1 0			3 1			<1 0			<1 0
89-7										1 0			<1 0						<1 0			<1 0			<1 0			<1 0			1 8			<1 0
89-8										<1 0			<1 0				<1 0											<1 0						
89-9											3 0		1 9	2 2		2 1			1 0			<1 0			1 6			1 6			1 3			<1 0
89-10													60									26						20						20
89-11											<1 0		<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0
90-1A											102																							
90-1B											85		17																					
90-1C											184																							
90-2A											119																	35						
90-2B											178																							
90-3													51	48		26			8 7			3 9			35			33			7 7			3 8
90-4											<1 0		<1 0															<1 0						
90-5											<1 0	<1 0																<1 0						
90-6																			<1 0						<1 0									
92-1																																		4 5
92-2																																		
92-3																																		
92-4																																		
94-1																																		
94-2																																		
B Street					<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0		<1.0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1.0	<1 0	<1 0		<1 0	<1 0	<1 0	<1 0	<1 0						
Burns							<1 0																											
Clarence St				<1 0			<1 0																											
D-Street				<1 0								<1 0	<1.0	<1 0		<1 0												<1 0						
Depuy							<1 0																											
Geyser TC										<1 0			<1 0			<1.0			<1 0															
HRD-10																																		
HRD-12																												8 0						
HRD_13																												19						
HRD-17																												25						
HRD-19																												13						
L Street	<1 0			>1 0			<1 0			<1 0																							
L-87-1	<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0
L-87-2							2571	1516	1317	1164	874		724	879	1114		1218	1314	1721			220			320				1114	670	440			380
L-87-3	68	121	81	56	46	42	37	60	88	94	70	76	80			21			27			52			50			25			16			57
L-87-4	<1 0	<1 0		<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0			<1 0
L-87-5	5 4	6 2	7 5	7 8	7 0	6 8	6 3	4 5		3 3	3 4	4 5			6 2							2 7						4 4	4 4		3 0			1 9
L-87-7			<1 0	<1 0	<1 0	<1 0	<1 0	<1 0		<1 0	<1.0	<1 0	<1 0		<1 0	<1 0			<1 0			<1 0			<1 0			<1 0	<1 0	<1 0	<1.0			<1 0
L-87-8	3 5	2 4	6 1	9 3	5 1	8 0	7 2	6 0	6 1	12	7 1	5 1	2 3			14			11			18			1 5			4 8	6 3	13	16			12
L-88-9	<1 0			<1 0			<1 0			<1 0			<1 0															<1 0						
L-88-10	105		195	357	410	459	437	354	369	298	266		375	233	305	334			380			220			180			230			200			184
L-88-11	<1.0			<1 0			<1 0			<1 0			<1 0															<1 0						
L-88-12	3 5			2 1			2 3			3 2			2 4						1 5			1 1			1 7			1 2	2 3		2 6			1 3
L-88-13	6 8	8 1	17	24	27	21	19	13	13	9 9	7 6	5 7	9 7			34			23			8 8			5 0			40			38			14
LB-6																				<1 0														
LG-10								<1 0	<1.0	<1 0	<1 0	<1 0	<1 0			<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	>1 0	<1 0	<1.0	<1 0	<1 0	<1 0
LS-6	<1 0			<1 0			<1 0						<1.0	<1 0		<1 0			<1 0			<1 0			<1 0			<1 0			<1.0			<1 0
LS--7	<1 0			<1 0			<1 0			<1 0			<1 0															<1 0						
LS-8	83	69	45	21	17	13	13	47	110	128	87	110	127	87	56	15			12			110			110			20			6 7			78
LS-10													<1 0			<1 0			<1 0									<1 0						<1 0
LS-11	58	60		122	140	110	89	63	89	80	96	72	88	76		108			77			90			57			102			67			73
POTW	9 2			5 5			<1 0			10			36			3 2			<1 0			8			38			5			<1 0			4 6
Q Street	<1 0			<1 0			<1 0			<1 0			<1 0																					
Rainbow	8 9						64			27			16			99									7 9			74						
VE-50																																		
Werner St				<1 0			<1 0																											
O'Conr MW12																			<1 0															
O'Conr MW11																			<1 0															

Note that, for cis-1,2-DCE, the Federal MCL standard = the Montana WQB7 standard = 70 parts-per-billion.

Note 'J' indicates an estimated value, present but less than the limit of quantitation

Table 4.0
Cis-1,2-DCE Ground Water Concentrations in parts-per-billion

Well	Mar-92	Apr-92	May-92	Aug-92	Nov-92	Feb-93	May-93	Aug-93	Nov-93	Feb-94	May-94	Aug-94	Nov-94	Feb-95	May-95	Aug-95	Nov-95	May-96	Nov-96	May-97	Nov-97	May-98	Oec-98	May-99	Nov-99	May-00	Nov-00	May-01	Nov-01	May-02	Nov-02
1			<1 0		<1 0		<1 0		<1 0		<0 5		<0 5		<0 5		<0 5			<0 5		<0 5		<0 5		<0 5		<0 5		<0 5	
2			<1 0		<1 0		<1 0		<1.0		<0 5		<0 5		<0 5			<0 5		<0 5		<0 5		<0 5		<0 5		<0 5		<0 5	
3							<1 0				<0 5				<0 5			<0 5		<0 5				<0 5		<0 5		<0 5		<0 5	
4			<1 0				<1 0				<0 5				<0 5			<0 5		<0 5				<0 5		<0 5		<0 5		<0 5	
5			<1 0	<1 0	<1 0		<1 0	<1 0	<1 0	<1 0	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5		<0 5		<0 5		<0 5		<0 5		<0 5		<0 5	
6			<1 0		<1 0		<1 0		<1 0		<0 5		<0 5		<0 5		<0 5	<0 5		<0 5		<0 5		<0 5		<0 5		<0 5		<0 5	
7			<1 0				1 0				0 53				<0 5																
8			3 7				7 9				3 3				3 0																
11			<1 0																												
89-1			<1 0				1 6				<0 5				<0 5																
89-2	<1 0	<1 0	<1 0	<1.0	<1 0	<2 0	<1 0	<1 0	<1 0	<1 0	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5		<0 5		<0 5		<0 5					<0 5	<0 5	<0 5
89-3	<1 0		1	1.0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	0 54	<0 5	<0 5	<0 5	<0 5	<1 0	0 62	<0 5	1 0	0 76	0 61	0 59	1 0	0 37 J
89-4			4 8	4 6	2 6	1 6	1 2	1 2	<1 0	<1 0	0 72	0.73	0.53	<0 5	0 7	1 7	3 1	2 9		2 5	6 2	4 0	3 3	1 4	9 1	5.0	2 8	1 2	2 2	1 1	3 3
89-6			<1 0				<1 0				<0 5				<0 5			<0 5		<0 5		<0 5		<0 5		<0 5		<0 5		<0 5	
89-7			<1 0				<1 0				<0 5				<0 5																
89-8																															
89-9			1 2	3 3		<1 0	1 8		2 4	1 0	0 82	1 1	0 99	0 5	1.0	1 0	1 1		0 84	3 2	4 3		1 8	1 2	1 1	0 93	1 6	0 45J	1 3	0 81	1 1
89-10							2 1								1 1			8 3		4 2		5 4		3 4		3 3		2 9		1 8	
89-11			<1 0																												
90-1A																															
90-1B																															
90-1C																															
90-2A																															
90-2B							1 3				4 3				2 3																
90-3			2 5				1 1				5 6				5 1			2 8	1.7	<0 5J	2 6	1 0	1 0	0 53	1 7	0 32J		0 22J	<0 5	<0 5	<0 5
90-4																															
90-5																															
90-6			<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5															
92-1			7 7	1 2	<1 0	<1 0	3 1	<1 0	<1 0	<1 0	<0 5	<0 5	<0 5	<0 5	1 1	8 6	1 2	2 1		8 6	4 6	1 2	4 6		1 2	1 7	1 3	1 6	1 0	1 2	2 6
92-2			5 6	1 8	7 0	4 2	<1 0	1 0	4 2	3 6	4 2	6 4	2 6	3 0	3 6	6 0	4 1	0 74	1 6		0 92	<0 5J	<1 0	<0 5J	0 6 8	0 6 0	0 5 4	<0 5	0 41J	0 43 J	0 34 J
92-3				<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5															
92-4				<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<1 0	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5J	0 81		<0 5		1 4		<0 5J					0 36J		0 33 J
94-1												<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5		<0 5	<0 5	<1 0	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5
94-2													<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5		<0 5	<0 5	<1 0	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5	<0 5
B Street	<1 0	<1 0	<1 0				<1 0								<0 5			<0 5		<0 5		<0 5		<0 5		<0 5		<0 5		<0 5	
Burns																															
Clarence St																															
O-Street																															
Oepuy																															
Geyser TC																															
HRO-10															2 3																
HRO-12																															
HRO_13																															
HRO-17			8 4	9 5																											
HRO-19																															
L Street																															
L-87-1			<1 0																												
L-87-2				3 1 0	4 3 0	1 9 0	1 0 0	2 7 0		1 4 0	4 6	9 6	1 3 8	7 5	3 4	5 2	8 8	2 3	5 4	2 1	4 1	1 9	3 3	1 7	2 8	1 5	2 4	1 1	1 8	1 1	1 8
L-87-3			5 2	1 7	1 5	3 4	3 0	1 8	1 4	2 1	2 4	8 3	8 9	1 6	1 7	9 5	1 1	1 4		1 2		7 9		6 9		6 0		5 2	2 6	4 2	3 1
L-87-4			<1 0				<1 0				<0 5				<0 5			<0 5		<0 5		<0 5		<0 5		<0 5		<0 5		
L-87-5				4 1	2 2	1 2	2 2	3 7	3 1	1 4	0 78	1 2	1 1	<0 5	1 0	1 0	1 2	0 91		3 3			1 9					0 50	1 2	0 73	1 4
L-87-7			<1 0				<1 0				<0 5				<0 5					<0 5		<0 5		<0 5		<0 5		<0 5		
L-87-8			2 0	1 0	<1 0	3 1	<1 0	<1 0	2 0	4 0	1 5	1.6	1 2	3 2	<0 5	0 66	1 4	0 55	<0 5J	<0 5J	<0 5J	<2 5J	<1 0	1 6	5 8			2 8	2 6	2 6	2 0
L-88-9							<1 0								<0 5																
L-88-10				1 0 0	1 3 0	9 0	5 7	6 4	9 5	7 0	4 4	4 3	5 2	3 6	3 7	2 2	3 9	1 6	2 4	1 2	2 2	1 3	1 8	1 3	1 8	9 1	1 4	8 1	1 3	7 8	1 2
L-88-11																															
L-88-12			1 2																												
L-88-13			4 9			9 0	2 3				1 6				1 5			0 68		1 0		1 1		0 79		0 6 3		0.37J		0 36 J	
LB-6																															
LG-10	<1 0	<1 0	<1 0																												
LS-6			<1 0				<1 0				<0 5				<0 5																
LS--7																															
LS-8			5 4	1 2																											
LS-10																															
LS-11			5 0	5 4	4 3	2 9	2 5	1 6	1 3	3 0	1 8	2 2	1 7	1 5	1 2	1 9	9 0	1 0		5 9		6 7		7 6		5 5		3 6		3 5	
POTW			1 6																												
Q Street																															
Rainbow			1 1				3 0				2 2				2 3												0 50J	3 6	0 41 J	
VE-50															4 7																
Werner St																															
O'Conr MW12																												<0 5	<0 5	<0 5	<0 5
O'Conr MW11																													<0 5		

Note 'J' indicates an estimated value, present but less than the limit of quantitation

Table 5.0

Other Compounds Detected

ug/l (ppb)

Location	Date	Vinyl Chloride	Chlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	trans-Dichloroethene	2-Chlorotoluene	Toluene	Total Xylenes	Chlordibromomethane
	MCL =	**2**	**100**	**600**	**400**	**75**	**100**	not regulated	**1,000**	**10,000**	not regulated
	WQB7=	**2**	**100**	**600**	**400**	**75**	**100**	not regulated	**1,000**	**10,000**	not regulated
L-87-2	Nov-99	**21**	33	1.9	0.59	4.1	1.2	51			
	May-00	**11**	19	1.5	0.44J	3.0	1.0	40			
	Nov-00	**17**	33	1.9	0.55	4.2	1.1	48			
	May-01	**6.2**	14	1.3	0.40J	2.6	0.91	34			
	Nov-01	**16**	29	1.7	0.55	3.8	0.91	49			
	May-02	**9.1**	15	1.3	0.45 J	2.8	0.80	38	0.27 J	1.1	
	Nov-02	**15**	26	1.7	0.58	4.1	1.0	53			
L-87-3	May-01						0.38J				
	Nov-01						0.41J				
	May-02						0.32 J				
	Nov-02						0.73				
L-87-7	May-00							0.52			
	May-01							0.17J			
	May-02	**(not sampled)**									
L-87-8	Nov-02						0.17 J				
L-88-10	Nov-99	1.1	2.8	0.64	0.29J	1.1	0.31J	1.0			
	May-00	0.46J	1.4	0.43J		0.59	0.24J				
	Nov-00	0.67	3.0	0.56		0.66	0.30J	0.26J			
	May-01		0.75	0.32J		0.53	0.21J	0.10J			
	Nov-01	1.0	6.1	0.59	0.23J	1.2	0.35J	1.5			
	May-02		1.1	0.37 J		0.74	0.27 J				
	Nov-02	0.92	4.7	0.56	0.23 J	1.2	0.33 J	0.56			0.10 J
89-3	Nov-02										0.31 J
89-10	May-01						0.20J				
	May-02						not detected				
LS-11	May-00		2.4		0.39J	3.0					
	May-02					0.28 J					
Rainbow Motel	Nov-01		0.39J								
92-1	Nov-02										0.16 J

Note: In May 2001, MW2 and B-Street well groundwater contained traces of 4 common chlorination by-products: bromodichloromethane, bromoform, chlorodibromomethane, and chloroform.

Table 6.0

May 1989 Through November 2002
Apparent Free-Product Thickness Measurements
2002 Annual Ground Water Report
[feet]

Well	May-89	Nov-89	May-90	Nov-90	May-91	Nov-91	May-92	Nov-92	May-93	Nov-93	May-94	Nov-94	May-95	Aug-95	Nov-95	May-96	Nov-96	May-97	Nov-97	May-98	May-99	Jun-99	Sep-99	Nov-99	Jun-00	Nov-00	May-01	Dec-01	May-02	Nov-02
1								ND	ND																		ND	ND	ND	ND
2								ND	ND																		ND	ND	ND	ND
3								ND	ND																		ND	ND	ND	ND
LS-6																											<0.01	ND	ND	ND
LS-7	0.33	0.24	0.17	0.30	0.28	0.51		0.40	0.12	0.45		(well abandoned 12/94)			(replaced by 95-1)															
LS-12	0.86	0.96	0.69	0.74	0.69			(full of rocks & trash)																						
LB-4	1.10	0.95	0.85	0.86	0.90	0.84		0.77	0.54			0.81	0.45	0.65				0.66	0.42	0.28	0.39	0.40	0.47		0.09		0.57	0.23	0.04	0.07
LPW-1	0.94																	lid welded on top of steel casing												
L-87-2	0.27	1.74	0.48	0.76	0.12	0.13		0.01	ND	0.01		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	0.01	ND	ND		0.02	ND	<0.01	<0.01
L-87-4	0.22	0.31	0.04						ND		ND		ND	0.19	0.10		0.39	0.98	0.68	0.11		0.03	0.02		ND		<0.01	ND	<0.01	ND
L-87-5								ND	ND																		ND	ND	ND	ND
L-87-6																						0.01	ND				<0.01	ND		
L-87-7	0.93	1.26	0.70	1.10	0.87	0.68	0.62	1.00	0.63	0.70	0.58	0.68	0.24	0.65	0.70	0.24	0.46	0.90	0.48	0.33		0.55	0.67	ND	0.22		0.39	0.42	0.49	0.28
L-87-8	0.20	0.38	0.31	0.35	0.46	0.62	0.35	0.42	0.33		0.10	0.15	0.12	0.31	0.27	0.11	0.40	0.24	0.23			0.01	0.07			0.40	1.21	0.76	0.50	0.57
L-88-9																											<0.01	ND	ND	ND
90-1C						0.02																						0.03		
92-3		(screened too deep)																									ND	ND	ND	ND
L-88-13	(screened below the average product level)								ND													<0.01	ND	ND	ND		ND	ND	ND	ND
HRO-4																			0.41											
HRO-5																												0.04		
HRO-6					0.08			0.62		0.80	0.48	0.56	0.36	0.52		0.65	0.74	0.43	0.70	0.37	0.34	0.04	0.14		0.04			0.42	0.53	0.62
HRO-7																		0.58	0.61	0.27	0.20	<0.01	0.23		0.01		0.65	0.55	0.61	0.48
HRO-8										0.02		0.21		ND					dry									0.46		
HRO-9										0.10						0.03		0.04	0.05	0.03	0.03	0.02	0.01		ND		0.11	0.04	0.04	0.03
HRO-10												ND		<0.01		ND			<0.01								ND	ND	ND
HRO-11												0.11	0.23	ND						(inadvertently covered during MRL work along rail lines)										
HRO-12												ND	ND	ND		ND				(inadvertently covered during MRL work along rail lines)										
HRO-13									ND			ND	ND	ND		ND											ND	ND	ND	
HRO-14									ND			ND	<0.01			ND				(inadvertently covered during MRL work along rail lines)										
HRO-15									0.02			0.07	<0.01							(inadvertently covered during MRL work along rail lines)										
HRO-16									0.01			0.09	0.04							(inadvertently covered during MRL work along rail lines)										
HRO-17									0.41																					
HRO-19										0.24										(inadvertently covered during MRL work along rail lines)										
HRO-20							0.21				<0.01	<0.01	ND	0.06	0.16	0.03		ND	0.15									ND	0.09	ND
HRO-21											<0.01	<0.01	ND	ND	<0.01	ND		<0.01										ND	0.18	0.16
HRO-22											<0.01	<0.01	<0.01	ND	0.01	ND		0.01	0.06								0.21	ND	<0.01	ND
HRO-23											<0.01	<0.01	ND	ND		ND		ND	ND								<0.01	ND	<0.01	ND
HRO-24											0.02	<0.01	0.01	0.14	0.24	ND		0.03	0.17								0.04	ND	<0.01	ND
RW-1								0.01	ND			<0.01	0.01			ND		ND			<0.01	0.01	ND				0.01	ND	ND	ND
RW-2								ND	ND			<0.01	<0.01			ND		ND			0.01	0.01	ND				<0.01	ND	ND	ND
RW-3								0.07	ND			0.04	<0.01					0.15			0.10	0.10	ND				0.07	0.10	dry	<0.01
RW-4								0.16	0.20			0.16	0.16			0.40		0.34			1.01	0.41	ND		0.75		0.51	0.48	0.29	0.47
RW-5												0.09	0.24							(inadvertently covered during MRL work along rail lines)										
RW-6								0.42				1.07	0.22			0.13		0.36			0.23	0.36	0.82		0.70		0.37	0.64	0.11	1.00
RW-7											0.22	0.02	0.04	0.19	0.25	ND	0.26	0.06	0.20	0.13	0.17	0.01	0.01				0.23	0.17	0.07	0.13
RW-8											ND	0.01	0.03	0.15	0.17			0.04			0.05	0.02	0.08				0.28	0.31	0.47	0.30
RW-9											<0.01	ND	ND	ND	0.01	ND	ND	ND	ND	ND	<0.01	0.01	0.01				0.01	ND	<0.01	ND
LG-11																ND									ND			ND	ND	ND
LG-12																ND											<0.01	ND	ND	ND
95-1																ND	ND	ND				0.01	ND		ND		0.75	ND	<0.01	ND
HR-2W																													0.10	0.07
LPZ-100										0.22		0.09							0.17								0.08	(dry)	(dry)	(dry)

- interpolated from adjacent month's measurements

ND - No product detected

<0.01 - Trace of product detected, but less than the resolution of the product probe's scale

Note that a number of other wells were monitored per the DEQ-approved monitoring schedule. None contained detectable free product; measurements are presented on Tables 7.0 and 8.0 in this report.

Table 7.0

May 2002

Water Level and Product Thickness Measurements

Location	Date Measured	Product Depth [feet below TOC]	Water Depth [feet below TOC]	Product Thickness [feet]	Product Correction [feet]	*TOC Elevation [feet]*	Corrected SWL Elevation [ft]
LB-4	5/21/02	22.86	22.90	0.04	0.04	**4495.72**	4472.86
LS-6	5/21/02	nd	22.94			**4503.79**	4480.85
LS-11	5/22/02	nd	5.59			**4463.68**	4458.09
L-87-2	5/21/02	trace (odor)	25.84			**4494.94**	4469.10
L-87-3	5/22/02	nd	26.07			**4485.95**	4459.88
L-87-4	5/21/02	trace	23.49			**4497.71**	4474.22
L-87-5	5/21/02	nd	24.91			**4498.47**	4473.56
L-87-7	5/21/02	23.83	24.32	0.49	0.43	**4496.09**	4472.20
L-87-8	5/21/02	23.03	23.53	0.50	0.44	**4493.37**	4470.28
L-88-9	5/21/02	nd	23.34			**4504.49**	4481.15
L-88-10	5/22/02	nd	23.44			**4486.56**	4463.12
L-88-13	5/22/02	nd	24.53			**4491.39**	4466.86
1	5/16/02	nd	18.76			**4491.77**	4473.01
2	5/16/02	nd	19.09			**4489.68**	4470.59
3	5/16/02	nd	19.08			**4488.26**	4469.18
4	5/16/02	nd	9.14			**4479.51**	4470.37
5	5/16/02	nd	4.72			**4470.39**	4465.67
6	5/16/02	nd	4.61			**4468.42**	4463.81
7	5/22/02	nd	20.94			**4478.02**	4457.08
8	(hit by a snowplow & caved in several years ago)					**4486.79**	
89-1	5/17/02	nd	6.27			**4461.59**	4455.32
89-2	5/22/02	nd	26.08			**4483.09**	4457.01
89-3	5/21/02	nd	19.76			**4496.1**	4476.34
89-4	5/22/02	nd	22.13			**4489.86**	4467.73
89-6	5/22/02	nd	25.67			**4483.35**	4457.68
89-7	5/21/02	nd	28.81			**4498.64**	4469.83
89-9	5/21/02	nd	21.60			**4496.41**	4474.81
89-10	5/22/02	nd	25.69			**4484.07**	4458.38
90-2B	5/22/02	nd	20.04			**4482.32**	4462.28
90-3	5/14/02	nd	8.58			**4463.32**	4454.74
92-1	5/21/02	nd	24.44			**4498.51**	4474.07
92-2	5/14/02	nd	6.96			**4461.29**	4454.33
92-3	5/21/02	nd	23.57			**4500.59**	4477.02
92-4	5/22/02	nd	22.76			**4490.23**	4467.47
94-1	5/14/02	nd	9.46			**4452.09**	4442.63
94-2	5/14/02	nd	6.85			**4459.05**	4452.20
95-1	5/21/02	trace (odor)	23.23			**4499.08**	4475.85
B-Street		not measured - operating				(not surveyed)	
RAINBOW		not measured - operating				**4465.99**	
RW-1	5/22/02	nd	24.36			**4494.83**	4470.47
RW-2	5/22/02	nd	22.56			**4493.29**	4470.73
RW-3	5/22/02	dry at ~ 22.66'				**4495.65**	(dry)
RW-4	5/22/02	22.61	22.9	0.29	0.26	**4493.85**	4471.21
RW-5	vault found, but not yet cleared of debris (confined space entry)					**4495.55**	
RW-6	5/22/02	22.05	22.16	0.11	0.10	**4494.1**	4472.04
RW-7	5/21/02	23.93	24.00	0.07	0.06	**4496.37**	4472.43
RW-8	5/21/02	22.43	22.90	0.47	0.41	(not surveyed)	
RW-9	5/21/02	trace	23.83			**4492.99**	4469.16
HRO-6	5/21/02	24.03	24.56	0.53	0.47	**4497.76**	4473.67
HRO-7	5/21/02	24.08	24.69	0.61	0.54	**4497.81**	4473.66
HRO-9	5/21/02	25.40	25.44	0.04	0.04	**4494.88**	4469.48
HRO-10	5/21/02	nd	26.62	(next to HRO-9)		**4496.27**	4469.65
HRO-11	(inadvertenly covered during work along rail lines)					(not surveyed)	
HRO-12	(inadvertenly covered during work along rail lines)					"	
HRO-13	5/21/02	nd	23.80	(near RW-1)		**4494.73**	4470.93
HRO-14	(inadvertenly covered during work along rail lines)					(not surveyed)	
HRO-15	(inadvertenly covered during work along rail lines)					"	
HRO-16	(inadvertenly covered during work along rail lines)					"	
HRO-19	(inadvertenly covered during work along rail lines)					"	
HRO-20	5/21/02	24.57	24.66	0.09	0.08	**4497.01**	4472.43
HRO-21	5/21/02	22.86	23.04	0.18	0.16	**4493.15**	4470.27
HRO-22	5/21/02	trace	24.19			**4493.35**	4469.16
HRO-23	5/21/02	trace	23.97			**4493.11**	4469.14
HRO-24	5/21/02	trace	24.28			**4496.73**	4472.45
LPZ-100	5/21/02	(dry @ 21.45')		(100' from HR-2W)		(not surveyed)	(dry)
LPZ-150	5/21/02	trace	25.44	(50' from LPZ-100)		(not surveyed)	
HR-2W	5/21/02	24.99	25.09	0.10	0.09	**4494.28**	4469.28
LG-11	5/21/02	nd	19.39			**4500.56**	4481.17
LG-12	5/21/02	nd	19.34			**4500.45**	4481.11

Italicized well names indicate these wells were not required to be measured as part of the semiannual events; the rest were.
Product-containing well groundwater surface corrected to water-only simulation using a product density factor of .88
ND - not detected
SWL = static water level

November 2002

Water Level and Product Thickness Measurements

Location	Date Measured	Product Depth [feet below TOC]	Water Depth [feet below TOC]	Product Thickness [feet]	Product Correction [feet]	*TOC Elevation [feet]*	Corrected SWL Elevation [ft]
LB-4	11/20/02	22.25	22.32	0.07	0.06	**4495.72**	4473.46
LS-6	11/21/02	nd	21.26			**4503.79**	4482.53
LS-11	11/21/02	nd	8.38			**4463.68**	4455.30
L-87-2	11/19/02	trace (odor)	25.25			**4494.94**	4469.69
L-87-3	11/19/02	nd	26.14			**4485.95**	4459.81
L-87-4	11/21/02	nd	22.64			**4497.71**	4475.07
L-87-5	11/20/02	nd	24.08			**4498.47**	4474.39
L-87-7	11/21/02	23.27	23.55	0.28	0.25	**4496.09**	4472.79
L-87-8	11/19/02	22.65	23.22	0.57	0.50	**4493.37**	4470.65
L-88-9	11/21/02	nd	21.97			**4504.49**	4482.52
L-88-10	11/19/02	nd	24.13			**4486.56**	4462.43
L-88-13	11/21/02	nd	24.57			**4491.39**	4466.82
1	11/21/02	nd	17.92			**4491.77**	4473.85
2	11/21/02	nd	18.55			**4489.68**	4471.13
3	11/21/02	nd	18.78			**4488.26**	4469.48
4	11/21/02	nd	8.79			**4479.51**	4470.72
5	11/21/02	nd	5.10			**4470.39**	4465.29
6	11/21/02	nd	5.43			**4468.42**	4462.99
7	11/21/02	nd	21.69			**4478.02**	4456.33
8	(hit by a snowplow & caved in several years ago)					**4486.79**	
89-1	11/20/02	nd	6.50			**4461.59**	4455.09
89-2	11/21/02	nd	26.49			**4483.09**	4456.60
89-3	11/19/02	nd	18.44			**4496.10**	4477.66
89-4	11/19/02	nd	21.23			**4489.86**	4468.63
89-6	11/21/02	nd	26.54			**4483.35**	4456.81
89-7	11/20/02	nd	27.60			**4498.64**	4471.04
89-9	11/20/02	nd	20.54			**4496.41**	4475.87
89-10	11/21/02	nd	26.93			**4484.07**	4457.14
90-2B	11/21/02	nd	20.95			**4482.32**	4461.37
90-3	11/18/02	nd	10.16			**4463.32**	4453.16
92-1	11/19/02	nd	23.36			**4498.51**	4475.15
92-2	11/18/02	nd	8.78			**4461.29**	4452.51
92-3	11/21/02	nd	22.39			**4500.59**	4478.20
92-4	11/21/02	nd	21.56			**4490.23**	4468.67
94-1	11/18/02	nd	10.44			**4452.09**	4441.65
94-2	11/18/02	nd	8.48			**4459.05**	4450.57
95-1	11/20/02	no trace or odor	21.57			**4499.08**	4477.51
B-Street		not measured - operating				(not surveyed)	
RAINBOW		not measured - wellhead inaccessible				**4465.99**	
RW-1	11/20/02	nd	23.80			**4494.83**	4471.03
RW-2	11/20/02	nd	22.16			**4493.29**	4471.13
RW-3	11/20/02	trace	22.56			**4495.65**	(dry)
RW-4	11/20/02	22.16	22.63	0.47	0.41	**4493.85**	4471.63
RW-5	vault found, but not yet cleared of debris (confined space entry)					**4495.55**	(vault surface)
RW-6	11/20/02	21.42	22.42	1.00	0.88	**4494.1**	4472.56
RW-7	11/21/02	23.32	23.45	0.13	0.11	**4496.37**	4473.03
RW-8	11/21/02	22.09	22.39	0.30	0.26	(not surveyed)	
RW-9	11/21/02	nd	23.59			**4492.99**	4469.40
HRO-6	11/21/02	23.25	23.87	0.62	0.55	**4497.76**	4474.44
HRO-7	11/21/02	23.33	23.81	0.48	0.42	**4497.81**	4474.42
HRO-9	11/20/02	24.74	24.77	0.03	0.03	**4494.88**	4470.14
HRO-10	11/20/02	nd	25.93	(next to HRO-9)		**4496.27**	4470.34
HRO-11	(inadvertenly covered during work along rail lines)					(not surveyed)	
HRO-12	(inadvertenly covered during work along rail lines)					"	
HRO-13	11/20/02	nd	23.21	(near RW-1)		**4494.73**	4471.52
HRO-14	(inadvertenly covered during work along rail lines)					(not surveyed)	
HRO-15	(inadvertenly covered during work along rail lines)					"	
HRO-16	(inadvertenly covered during work along rail lines)					"	
HRO-19	(inadvertenly covered during work along rail lines)					"	
HRO-20	11/21/02	nd	23.98			**4497.01**	4473.03
HRO-21	11/21/02	22.50	22.66	0.16	0.14	**4493.15**	4470.63
HRO-22	11/21/02	nd	23.97			**4493.35**	4469.38
HRO-23	11/21/02	nd	23.74			**4493.11**	4469.37
HRO-24	11/21/02	nd	23.67			**4496.73**	4473.06
LPZ-100	11/20/02	(consistently dry)		(100' from HR-2W)		(not surveyed)	(dry)
LPZ-150	11/20/02	nd	24.97	(50' from LPZ-100)		(not surveyed)	
HR-2W	11/20/02	24.42	24.49	0.07	0.06	**4494.28**	4469.85
HR-2D	11/20/02	nd	23.53			(not surveyed)	
LG-11	11/21/02	nd	17.72			**4500.56**	4482.84
LG-12	11/21/02	nd	17.70			**4500.45**	4482.75
OCnr MW12	11/20/02	nd	25.00			**4484.57**	4459.57

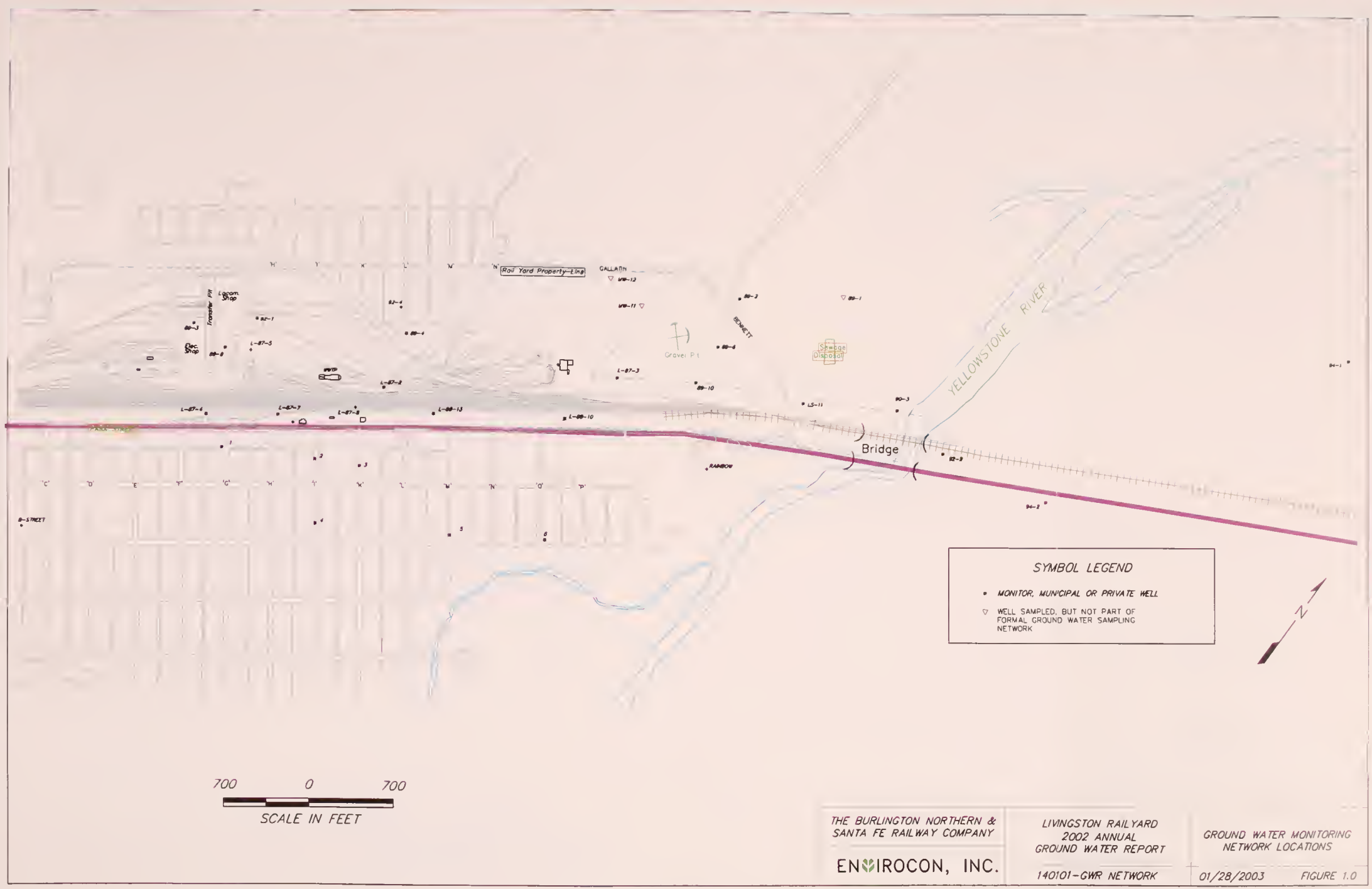
Italicized well names indicate these wells were not required to be measured as part of the semiannual events; the rest were.
Product-containing well groundwater surface corrected to water-only simulation using a product density factor of .88
ND - not detected
SWL = static water level

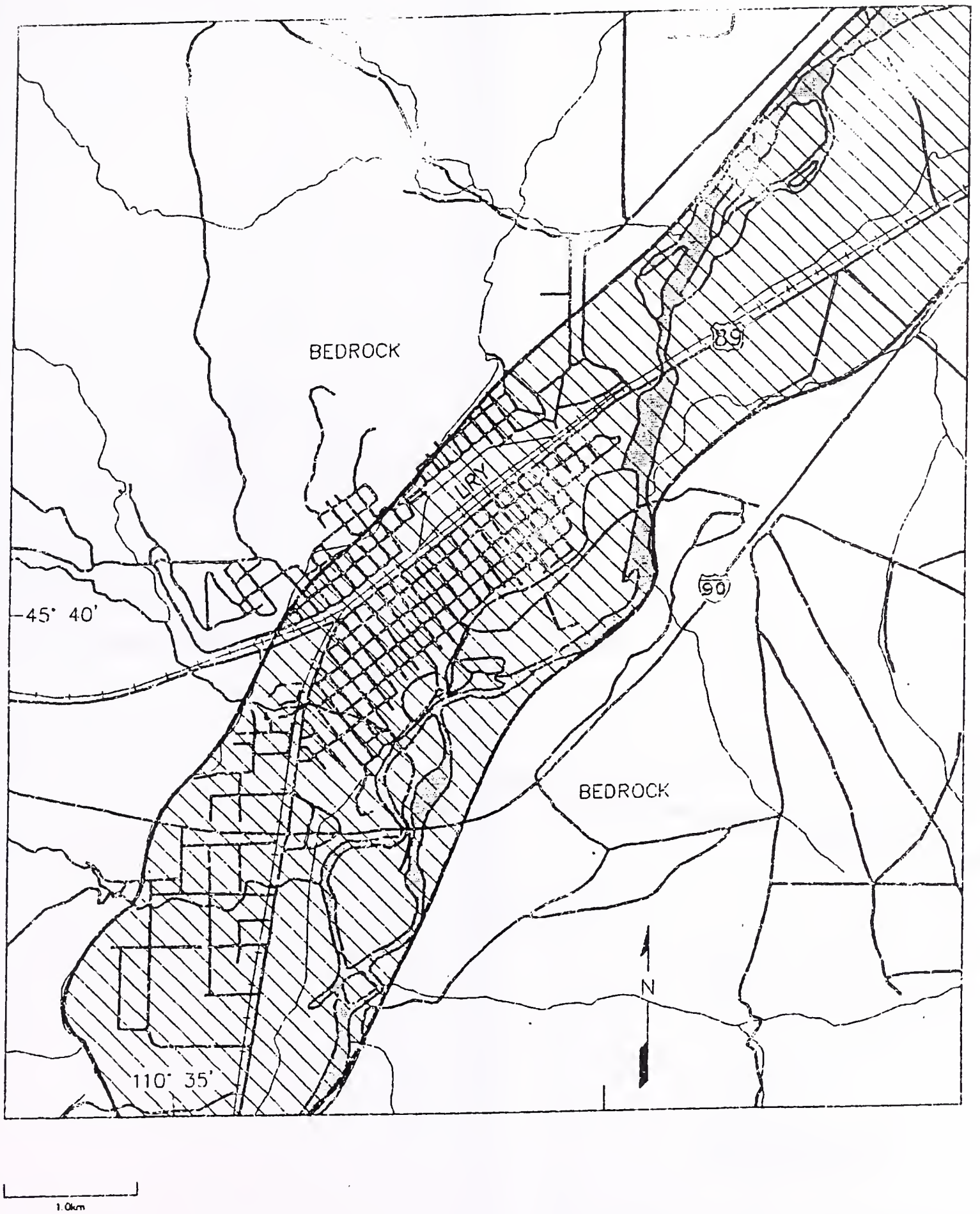
Table 9.0

Well Construction Table
With December 2001 Product & SWL Measurements

Well	Product Depth [feet below TOC]	Water Depth [feet below TOC]	Water Depth [feet bgs]	Screened interval [bgs]	TOC Stick-up above bgs [ft]
LB-4	23.00	23.23		17' to 27'	
LS-6*	-	22.34		15' to 25'	
LS-11	-	9.26		3.5' to 13.5'	
L-87-2	-	27.99		21' to 31'	
L-87-3	-	26.99		17' to 32.6'	
L-87-4	-	23.36		17' to 27'	
L-87-5	-	24.81		17' to 27'	
L-87-6	-	25.36	23.61	17' to 27'	1.77
L-87-7	23.92	24.34		17' to 27'	
L-87-8	23.30	24.06	21.685	17' to 27'	2.38
L-88-9*	-	23.36		19.6' to 29.6'	
L-88-10	-	25.12		19.4' to 29.4'	
L-88-11	-	20.30		19' to 29'	
L-88-12	-	25.29		31' to 41'	
L-88-13	-	25.60		31.5' to 41.5'	
1	-	19.01		15.8' to 25.8'	
2	-	18.81**		15' to 25'	
3	-	19.74***		14.7' to 24.7'	
4	-	9.22		5' to 15'	
5	-	5.74		3.2' to 13.2'	
6	-	6.08		3.2' to 13.2'	
7				16' to 31'	
8	(hit by a snowplow & caved in several years ago)			18.5' to 28.5"	
89-1	-	7.51		20' to 30'	
89-2				18' to 38'	
89-3	-	19.54		14' to 34'	
89-4	-	21.86		23' to 33'	
89-6	-	27.62		27' to 37'	
89-7	-	28.50		21' to 31'	
89-9	-	21.37		14' to 34'	
89-10	-	28.01		22' to 32'	
90-1C	23.22	23.25		16' to 26'	
90-2B	-	21.52		12.5' to 22.5'	
90-3	-	10.72		6' to 16'	
90-6	-	22.30		12.5' to 32.5'	
92-1	-	24.29		23.8' to 33.8'	
92-2	-	9.59		6' to 25'	
92-3	-	23.18	21.18	25' to 35.5'	2.00
92-4	-	22.18		24.8' to 34.8'	
94-1	-	10.86		27' to 37'	
94-2	-	9.18		27.5' to 37.5'	
95-1	-	23.58		15' to 32'	
B-Street		na			
Rainbow	not measured	na			
RW-1	-	18.23		na	
RW-2	-	17.84		na	
RW-3	18.04	18.14		na	
RW-4	18.18	18.66		na	
RW-5	not measured			na	
RW-6	17.52	18.16		na	
RW-7	23.91	24.08		13.5' to 28.5'	
RW-8	22.65	22.96		14' to 29'	
RW-9	-	24.03		15' to 30'	
HR-1D	23.62	23.83		19' to 34'	
HRO-5	23.58	23.62		17' to 37'	
HRO-6	23.77	24.19		18' to 28'	
HRO-7	23.89	24.44		18' to 28'	
HRO-8	25.21	25.67		15' to 30'	
HRO-9	25.62	25.66		15' to 30'	
HRO-10	-	27.09		14' to 34'	
HRO-11	(inadvertenly covered during work along rail lines)			17.2' to 37.2'	
HRO-12	(inadvertenly covered during work along rail lines)			11.5' to 36.5'	
HRO-13		23.61		18.5' to 38.5'	
HRO-14	(inadvertenly covered during work along rail lines)			17.7' to 37.7'	
HRO-15	(inadvertenly covered during work along rail lines)			20' to 40'	
HRO-16	(inadvertenly covered during work along rail lines)			18.2' to 38.2'	
HRO-19	(inadvertenly covered during work along rail lines)			12.9' to 37.9'	
HRO-20	-	24.50	22.21	15.5' to 25.5'	2.29
HRO-21	-	22.88	20.74	14.5' to 24.5'	2.14
HRO-22	-	24.37	22.50	15' to 25'	1.88
HRO-23	-	24.23	22.27	16' to 26'	1.96
HRO-24	-	24.14	22.09	15' to 25'	2.05
LPZ-50	25.62	25.71		na	
LPZ-100	(dry)	(dry)		na	
LPZ-150	trace	25.24		na	
LG-11*	-	19.24		12.1' to 22.1'	
LG-12*	-	19.67		11.1' to 21.1'	

FIGURES


Rail Yard Property Line
GALLATIN
Loco. Shop
Transfer Pit
Rec. Shop
WWTP
Gravel Pit
BENNETT
Sewage Disposal
YELLOWSTONE RIVER
Bridge
RAINBOW
B-STREET
SYMBOL LEGEND
MONITOR, MUNICIPAL OR PRIVATE WELL
WELL SAMPLED, BUT NOT PART OF FORMAL GROUND WATER SAMPLING NETWORK
700 0 700
SCALE IN FEET
THE BURLINGTON NORTHERN & SANTA FE RAILWAY COMPANY
ENVIROCON, INC.
LIVINGSTON RAILYARD 2002 ANNUAL GROUND WATER REPORT
140101-GWR NETWORK
GROUND WATER MONITORING NETWORK LOCATIONS
01/28/2003
FIGURE 1.0



BURLINGTON NORTHERN	GROUND WATER SECTION LIVINGSTON RAILYARD REMEDIAL INVESTIGATION	APPROXIMATE AREA OF LIVINGSTON AQUIFER
ENVIROCON, INC.	AutoCAD FILE: GWRI-1.DWG_B	8/27/91 — FIGURE 1.1



BURLINGTON NORTHERN SANTA FE RAILROAD COMPANY

ENVIROCON, INC.

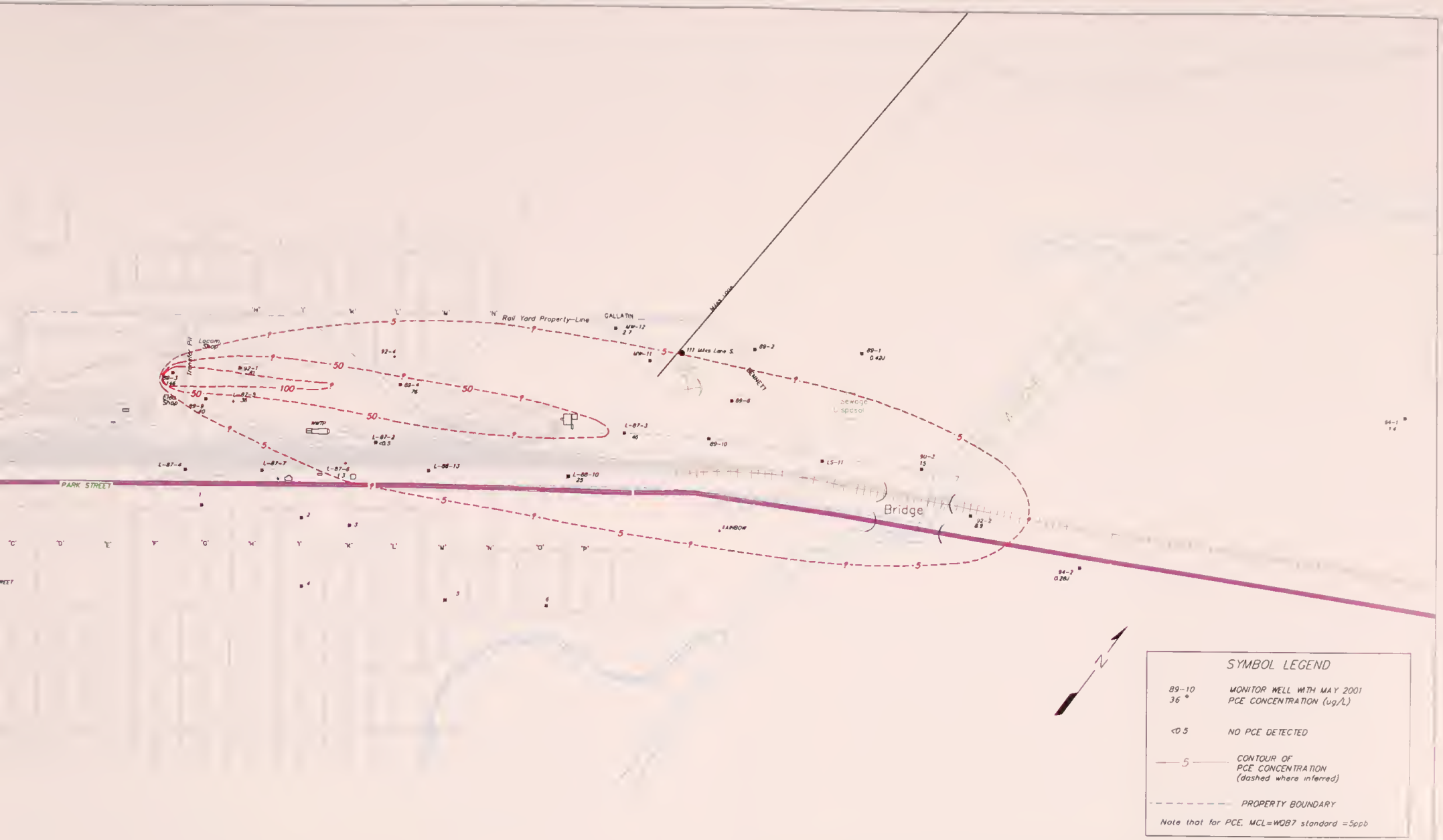
LIVINGSTON RAIL YARD 2002 ANNUAL GROUNDWATER REPORT

Acad. file: 140101/2002-PCE

MAY 2002 PCE CONCENTRATIONS

01/30/2003

FIGURE 2.0



BURLINGTON NORTHERN SANTA FE RAILROAD COMPANY

ENVIROCON, INC.

LIVINGSTON RAIL YARD 2002 ANNUAL GROUNOWATER REPORT

Acad. file: 140101/2002-PCE

NOVEMBER 2002 PCE CONCENTRATIONS

01/30/03 FIGURE 3.0



BURLINGTON NORTHERN SANTA FE RAILROAD COMPANY

ENVIROCON, INC.

LIVINGSTON RAIL YARD
2002 ANNUAL
GROUNDWATER REPORT

Acad file: 140101/2002-TCE

MAY 2002 TCE CONCENTRATIONS

01/30/2003

FIGURE 4.0



BURLINGTON NORTHERN SANTA FE RAILROAD COMPANY

ENVIROCON, INC.

LIVINGSTON RAIL YARD
2002 ANNUAL
GROUNDWATER REPORT

NOVEMBER 2002 TCE CONCENTRATIONS

Acad file: 140101/2002-TCE

01/30/2003

FIGURE 5.0



BURLINGTON NORTHERN SANTA FE RAILROAD COMPANY

ENVIROCON, INC.

LIVINGSTON RAIL YARD
2002 ANNUAL
GROUNDWATER REPORT

Acad. file: 140101/2002-DCE

MAY 2002
cis-1,2-DCE
CONCENTRATIONS
IN GROUNDWATER

01/30/2003 FIGURE 6.0



SYMBOL LEGEND

89-10 36	MONITOR WELL WITH NOVEMBER 2001 DCE CONCENTRATION (ug/L)
<0.5	NO DCE DETECTED
10	CONTOUR OF DCE 10ug/l CONCENTRATIONS (MCL=70ug/l)
	LRY BOUNDARY

Note that for cis-DCE, MCL=WQB7 standard =70ppb

BURLINGTON NORTHERN SANTA FE RAILROAD COMPANY

ENVIROCON, INC.

LIVINGSTON RAIL YARD
2002 ANNUAL
GROUNDWATER REPORT

File: 140101/2002-DCE NOV

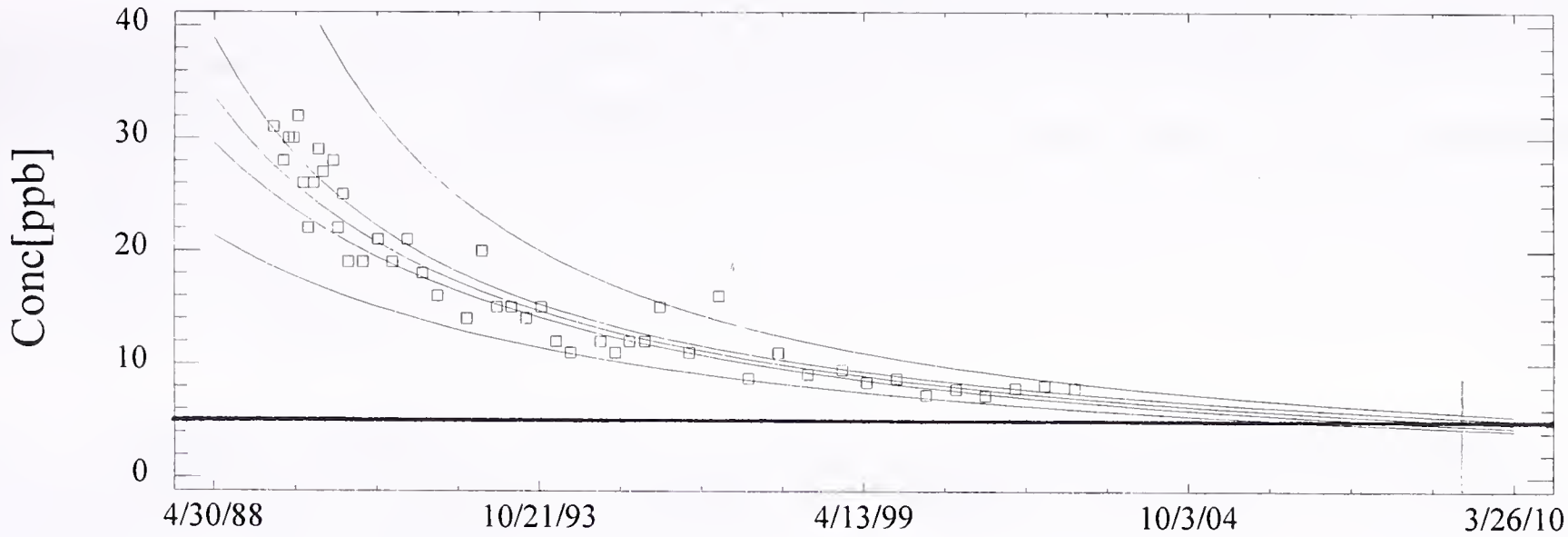
NOVEMBER 2002
cis-1,2-DCE
CONCENTRATIONS
IN GROUNDWATER

01/30/2003 FIGURE 7.0

Plot of Fitted Model

Power=-0.804688, Shift=0.0

L-88-10 TCE



EXPONENTIAL REGRESSION LINE WITH
95% CONFIDENCE INTERVAL ENVELOPE
AVERAGE SLOPE OF MEAN IN ug/L/YEAR = -1.5
ACTUAL DECLINE OBSERVED = 75%

Center curved line is the estimate of the mean concentration over time, statisically derived from the data collected to date.

Inner pair of lines surrounding the center curved line delineates the envelope containing the means of the data points at each point in time with a 95% degree of statistical confidence. I.E. the mean described above could vary anywhere within this inner envelope.

Outer pair of lines delineates the envelope containing the data universe with a 95% degree of statistical confidence.

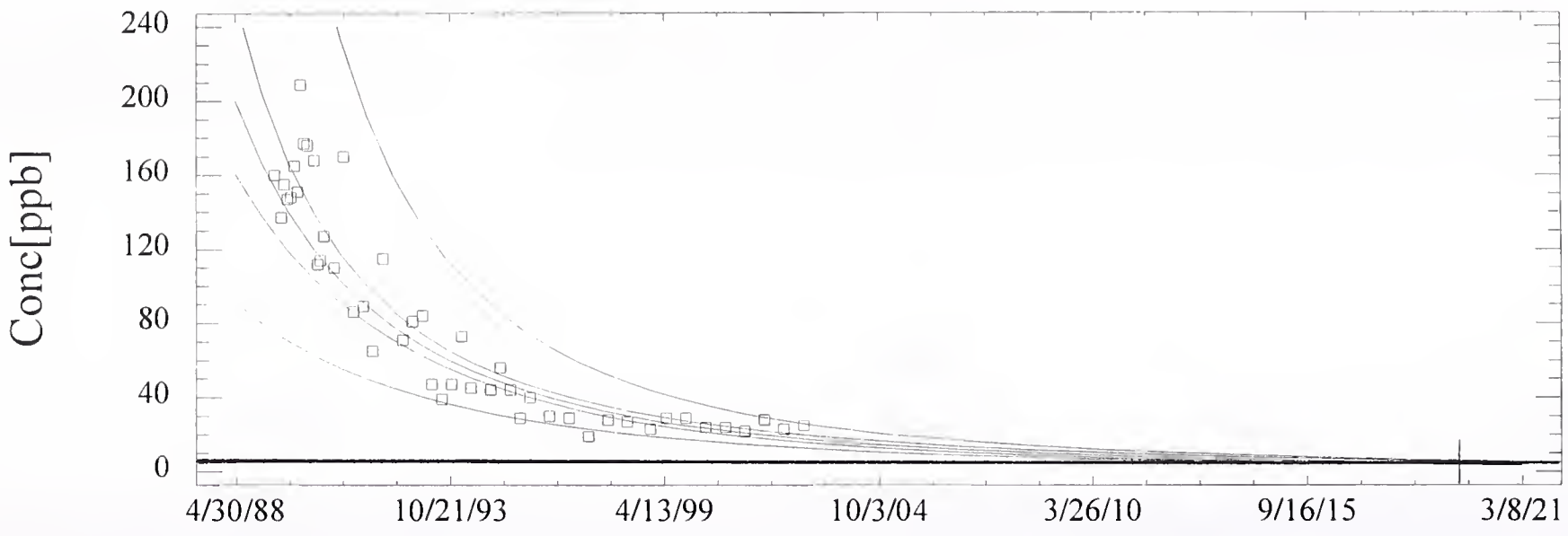
ESTIMATED TIME FRAME FOR
COMPLIANCE WITH MCL LEVEL
2009

THE BURLINGTON NORTHERN & SANTA FE RAILWAY COMPANY	LIVINGSTON RAIL YARD 2002 ANNUAL GROUNDWATER REPORT	TRICHLOROETHENE CONCENTRATIONS FOR WELL L-88-10
ENVIROCON, INC.	AutoCad FILE: L-88-10 TCE	FIGURE 8.0

Plot of Fitted Model

Power=-0.410938, Shift=0.0

L-88-10 PCE



EXPONENTIAL REGRESSION LINE WITH
95% CONFIDENCE INTERVAL ENVELOPE
AVERAGE SLOPE OF MEAN IN ug/L/YEAR = -10.4 ppb/yr
ACTUAL DECLINE OBSERVED = 88%

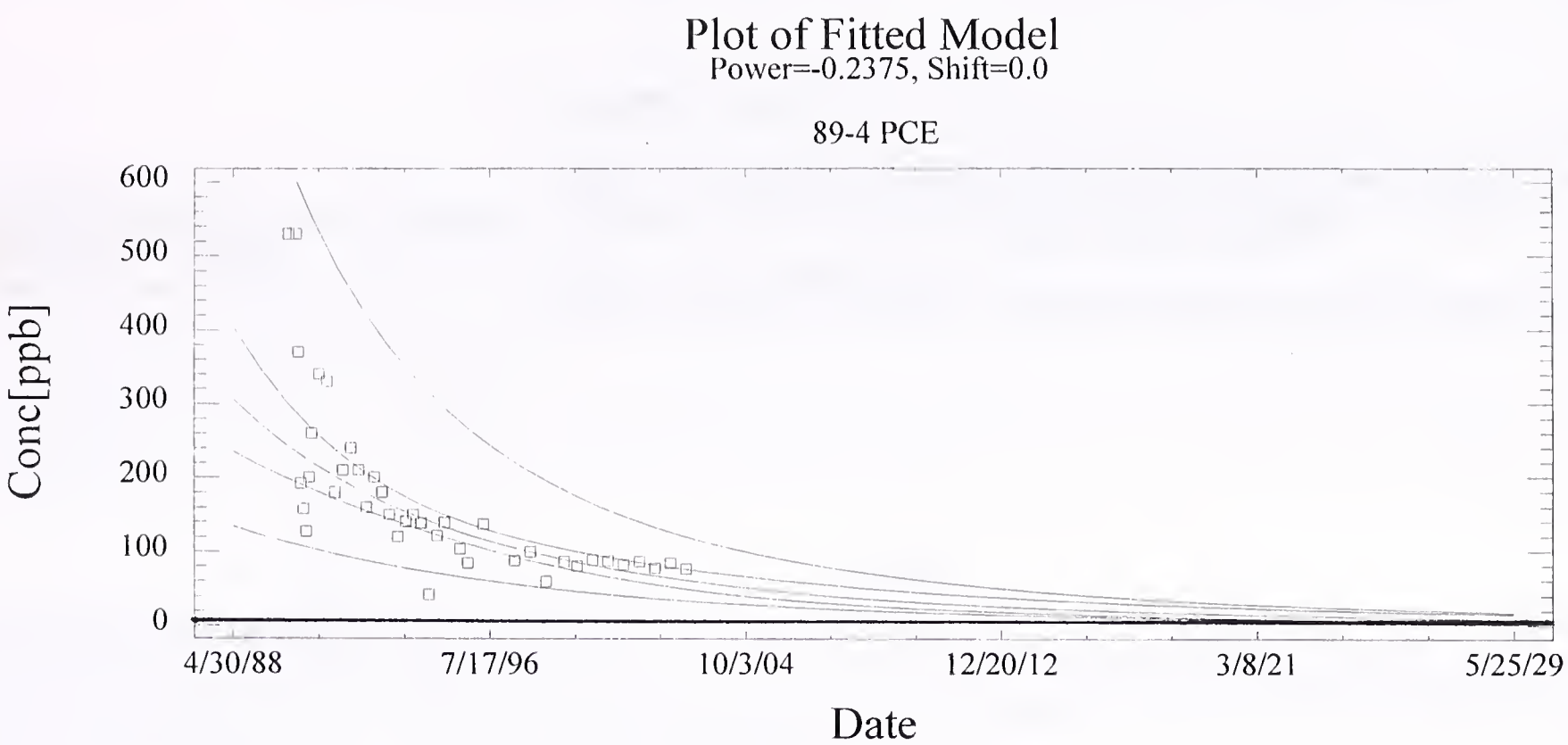
Center curved line is the estimate of the mean concentration over time, statisically derived from the data collected to date.

Inner pair of lines surrounding the center curved line delineates the envelope containing the means of the data points at each point in time with a 95% degree of statistical confidence. I.E. the mean described above could vary anywhere within this inner envelope.

Outer pair of lines delineates the envelope containing the data universe with a 95% degree of statistical confidence.

ESTIMATED TIME FRAME FOR
COMPLIANCE WITH MCL LEVEL
2019

THE BURLINGTON NORTHERN & SANTA FE RAILWAY COMPANY	LIVINGSTON RAIL YARD 2002 ANNUAL GROUNDWATER REPORT	TETRACHLOROETHENE CONCENTRATIONS FOR WELL L-88-10
ENVIROCON, INC.	AutoCad FILE: L-88-10 PCE	FIGURE 9.0



EXPONENTIAL REGRESSION LINE WITH
95% CONFIDENCE INTERVAL ENVELOPE
AVERAGE SLOPE OF MEAN IN ug/L/YEAR = -13.8 ppb/yr
ACTUAL DECLINE OBSERVED = 86%

Center curved line is the estimate of the mean concentration over time, statisically derived from the data collected to date.

Inner pair of lines surrounding the center curved line delineates the envelope containing the means of the data points at each point in time with a 95% degree of statistical confidence. I.E. the mean described above could vary anywhere within this inner envelope.

Outer pair of lines delineates the envelope containing the data universe with a 95% degree of statistical confidence.

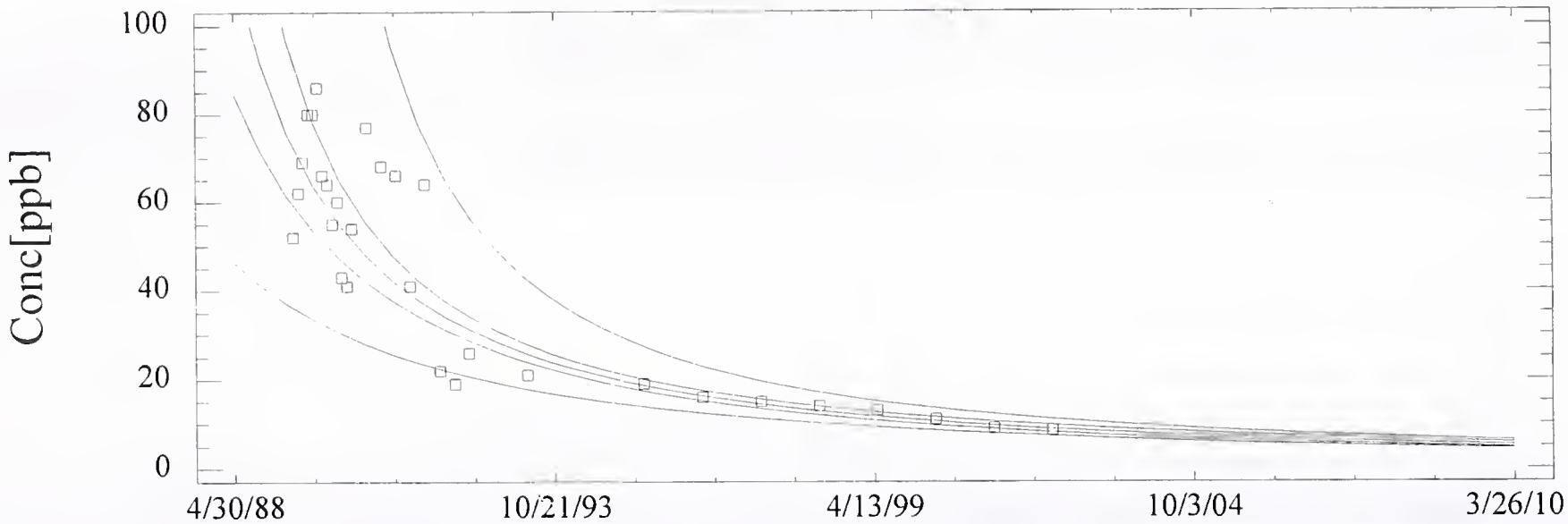
ESTIMATED TIME FRAME FOR
COMPLIANCE WITH MCL LEVEL
~2030

THE BURLINGTON NORTHERN & SANTA FE RAILWAY COMPANY	LIVINGSTON RAIL YARD 2002 ANNUAL GROUNDWATER REPORT	TETRACHLOROETHENE CONCENTRATIONS FOR WELL 89-4
ENVIROCON, INC.	AutoCad FILE: 89-4 PCE	FIGURE 10.0

Plot of Fitted Model

Power=-0.742188, Shift=0.0

L-88-13 PCE



EXPONENTIAL REGRESSION LINE WITH
95% CONFIDENCE INTERVAL ENVELOPE
AVERAGE SLOPE OF MEAN IN ug/L/YEAR = -4.7 ppb/yr
ACTUAL DECLINE OBSERVED = 90%

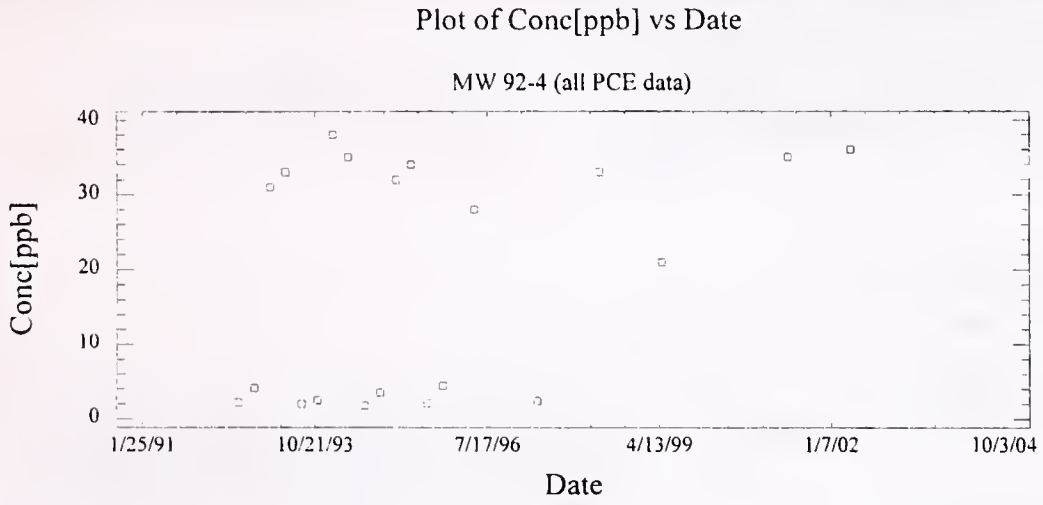
Center curved line is the estimate of the mean concentration over time, statisically derived fram the data collected to date.

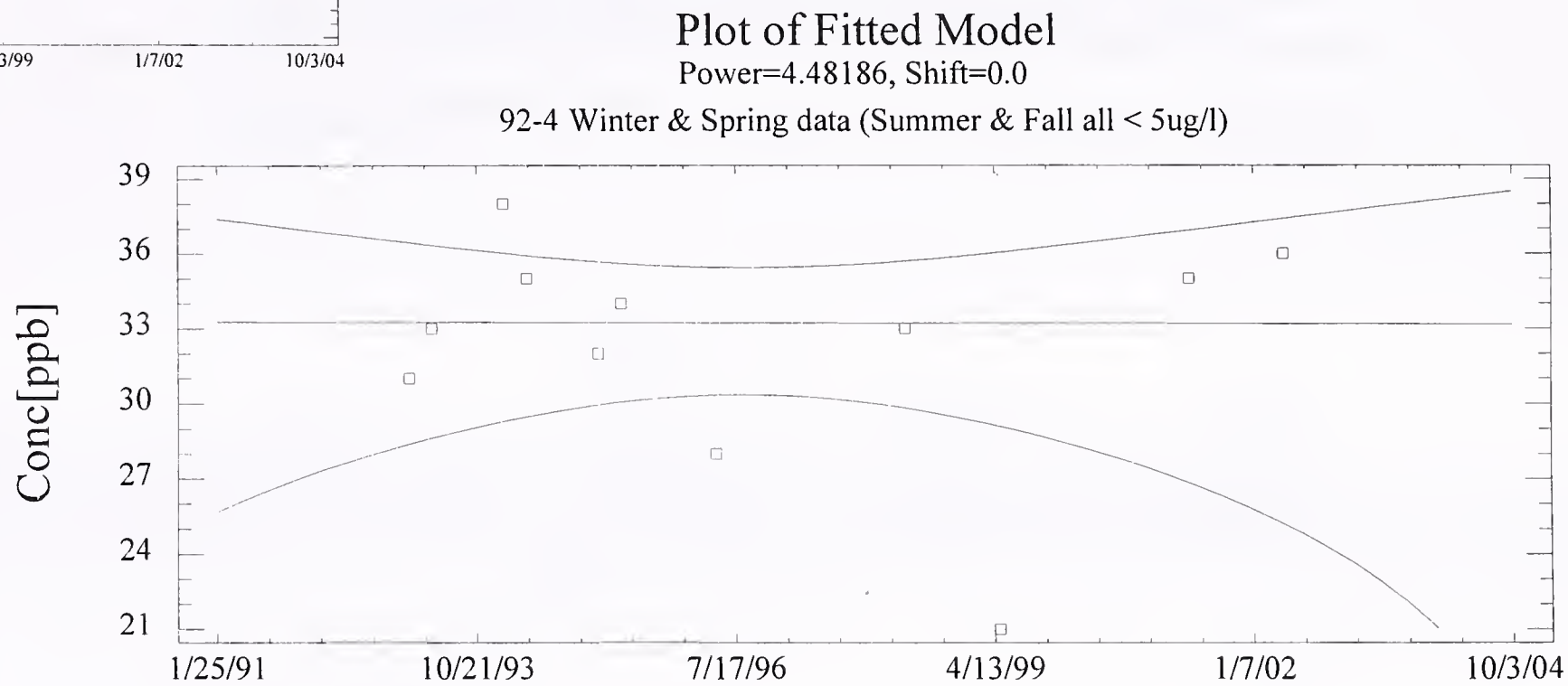
Inner pair of lines surrounding the center curved line delineates the envelope containing the means af the data points at each point in time with a 95% degree of statistical confidence. I.E. the mean described above could vary anywhere within this inner envelope.

Outer pair of lines delineates the envelope containing the data universe with a 95% degree of statistical confidence.

ESTIMATED TIME FRAME FOR
COMPLIANCE WITH MCL LEVEL
~2010

THE BURLINGTON NORTHERN & SANTA FE RAILWAY COMPANY	*LIVINGSTON RAIL YARD 2002 ANNUAL GROUNDWATER REPORT*	*TETRACHLOROETHENE CONCENTRATIONS FOR WELL L-88-13*
ENVIROCON, INC.	*AutoCad FILE: L-88-13 PCE*	*FIGURE 11.0*





EXPONENTIAL REGRESSION LINE WITH
95% CONFIDENCE INTERVAL ENVELOPE
AVERAGE SLOPE OF MEAN IN ug/L/YEAR = 0 ppb/yr
ACTUAL DECLINE OBSERVED = 5%

Center curved line is the estimate of the mean concentration over time, statisically derived from the data collected to date.

Inner pair of lines surraunding the center curved line delineates the envelape containing the means of the data paints at each point in time with a 95% degree af statistical confidence. I.E. the mean described above could vary anywhere within this inner envelope.

Outer pair af lines delineates the envelope containing the data universe with a 95% degree af statistical confidence.

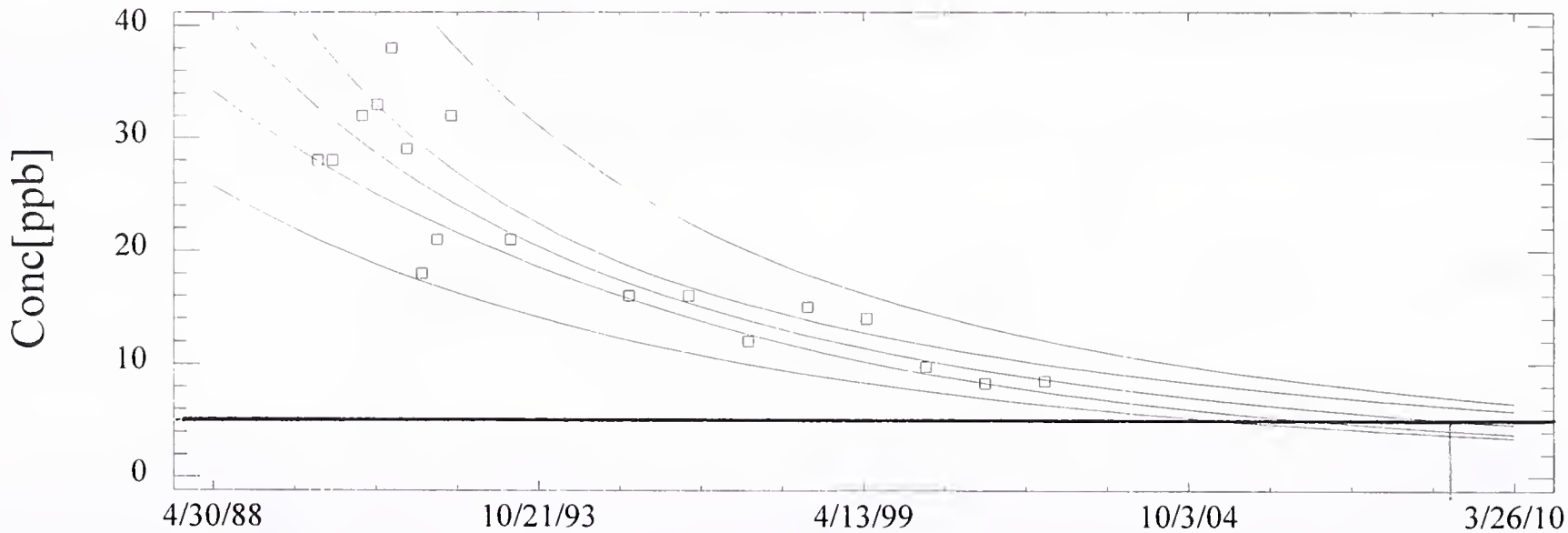
ESTIMATED TIME FRAME FOR
COMPLIANCE WITH MCL LEVEL
Extended; Unkown

THE BURLINGTON NORTHERN & SANTA FE RAILWAY COMPANY	*LIVINGSTON RAIL YARD 2002 ANNUAL GROUNDWATER REPORT*	*TETRACHLOROETHENE CONCENTRATIONS FOR WELL 92-4*
ENVIROCON, INC.	*AutoCad FILE: 92-4 PCE*	*FIGURE 12.0*

Plot of Fitted Model

Power=-0.354688, Shift=0.0

89-6 PCE



EXPONENTIAL REGRESSION LINE WITH
95% CONFIDENCE INTERVAL ENVELOPE
AVERAGE SLOPE OF MEAN IN ug/L/YEAR = -1.8 ppb/yr
ACTUAL DECLINE OBSERVED = 78%

Center curved line is the estimate of the mean concentration over time, statisically derived from the data collected to date.

Inner pair of lines surrounding the center curved line delineates the envelope containing the means of the data points at each paint in time with a 95% degree of statistical confidence. I.E. the mean described above could vary anywhere within this inner envelope.

Outer pair of lines delineates the envelope containing the data universe with a 95% degree of statistical confidence.

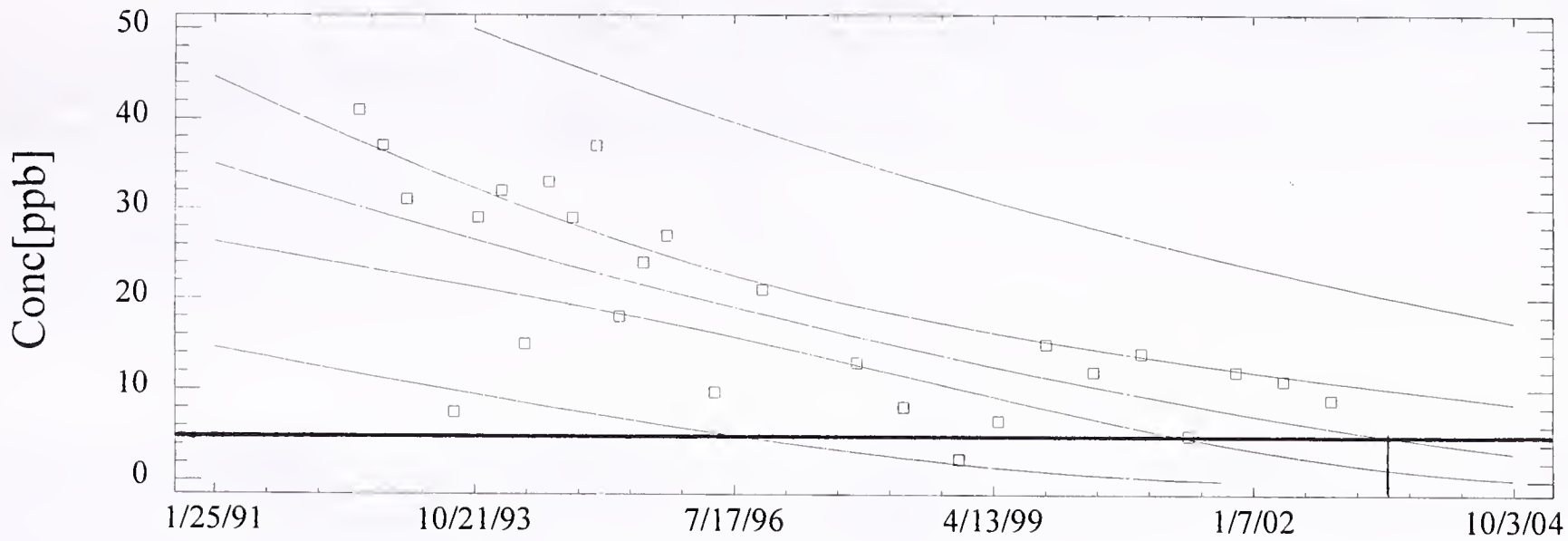
ESTIMATED TIME FRAME FOR
COMPLIANCE WITH MCL LEVEL
~2009

THE BURLINGTON NORTHERN & SANTA FE RAILWAY COMPANY	LIVINGSTON RAIL YARD 2002 ANNUAL GROUNDWATER REPORT	TETRACHLOROETHENE CONCENTRATIONS FOR WELL 89-6
ENVIROCON, INC.	AutoCad FILE: 89-6 PCE	FIGURE 13.0

Plot of Fitted Model

Power=0.600468, Shift=0.0

92-2 PCE



EXPONENTIAL REGRESSION LINE WITH
95% CONFIDENCE INTERVAL ENVELOPE
AVERAGE SLOPE OF MEAN IN ug/L/YEAR = -2.3 ppb/yr
ACTUAL DECLINE OBSERVED = 78%

Center curved line is the estimate of the mean concentration over time, statisically derived from the data collected to date.

Inner pair of lines surrounding the center curved line delineates the envelope containing the means of the data points at each point in time with a 95% degree of statistical confidence. I.E. the mean described above could vary anywhere within this inner envelope.

Outer pair of lines delineates the envelope containing the data universe with a 95% degree of statistical confidence.

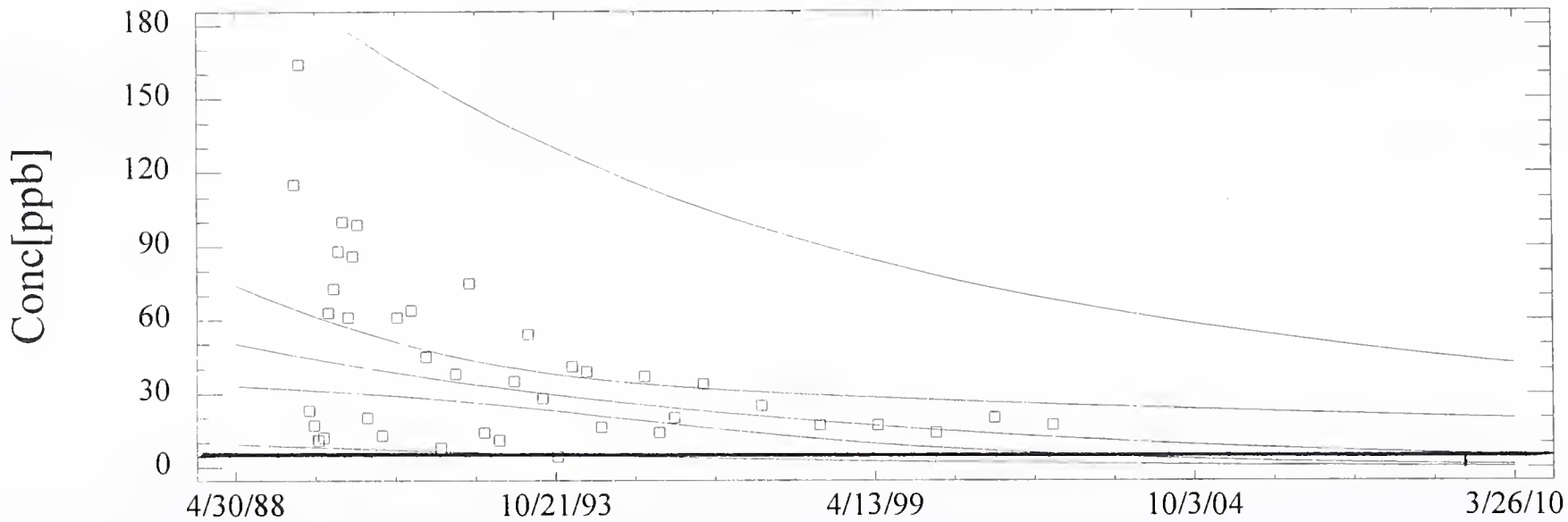
ESTIMATED TIME FRAME FOR
COMPLIANCE WITH MCL LEVEL
2003

THE BURLINGTON NORTHERN & SANTA FE RAILWAY COMPANY	LIVINGSTON RAIL YARD 2002 ANNUAL GROUNDWATER REPORT	TETRACHLOROETHENE CONCENTRATIONS FOR WELL 92-2
ENVIROCON, INC.	AutoCad FILE: 92-2 PCE	FIGURE 14.0

Plot of Fitted Model

Power=0.0962478, Shift=0.0

LS-11 PCE



EXPONENTIAL REGRESSION LINE WITH
95% CONFIDENCE INTERVAL ENVELOPE
AVERAGE SLOPE OF MEAN IN ug/L/YEAR = -2.9 ppb/yr
ACTUAL DECLINE OBSERVED = 90%

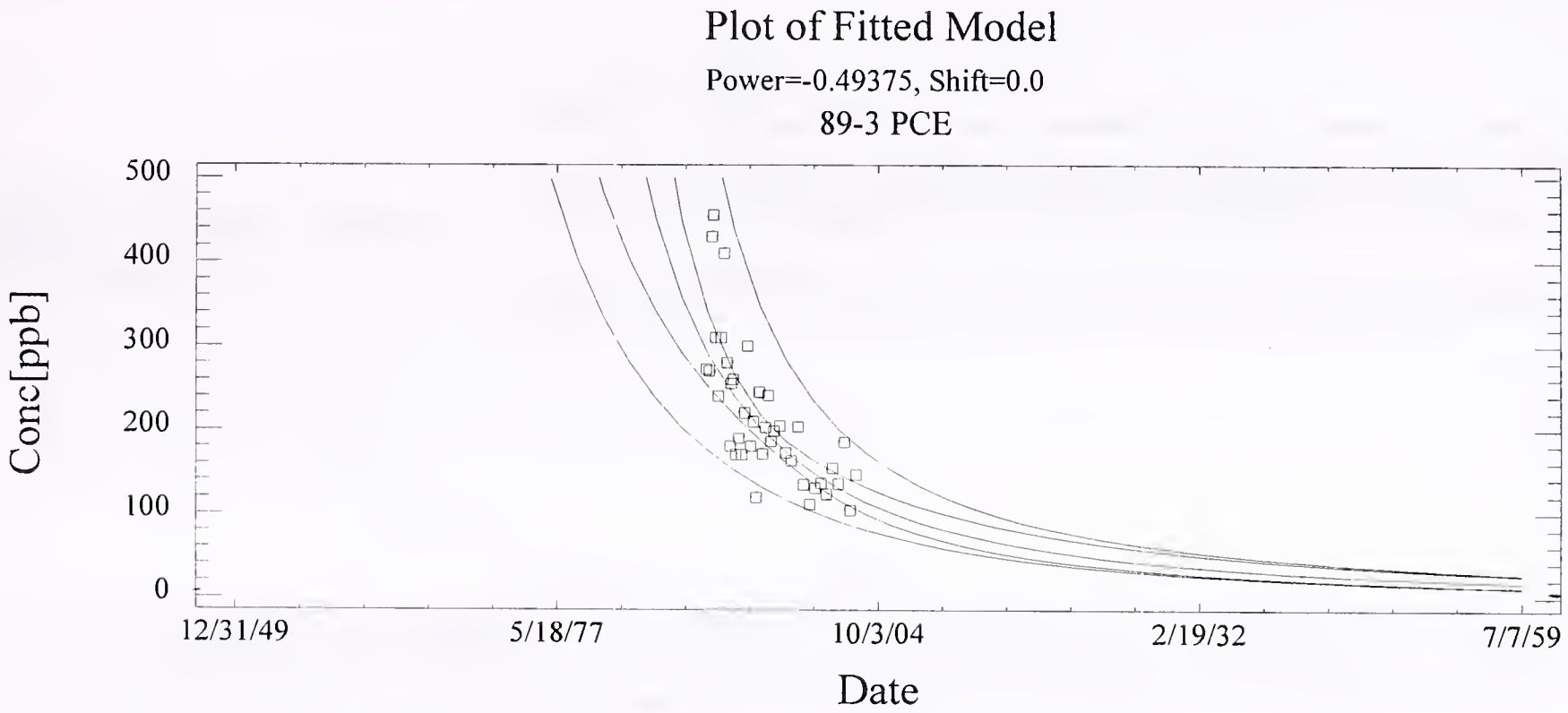
Center curved line is the estimate of the mean concentration over time, statisically derived from the data collected to date.

Inner pair of lines surrounding the center curved line delineates the envelope containing the means of the data points at each point in time with a 95% degree of statistical confidence. I.E. the mean described above could vary anywhere within this inner envelope.

Outer pair of lines delineates the envelope containing the data universe with a 95% degree of statistical confidence.

ESTIMATED TIME FRAME FOR
COMPLIANCE WITH MCL LEVEL
~2009

THE BURLINGTON NORTHERN & SANTA FE RAILWAY COMPANY	*LIVINGSTON RAIL YARD 2002 ANNUAL GROUNDWATER REPORT*	*TETRACHLOROETHENE CONCENTRATIONS FOR WELL LS-11*
ENVIROCON, INC.	*AutoCad FILE: LS-11 PCE*	*FIGURE 15.0*



EXPONENTIAL REGRESSION LINE WITH
95% CONFIDENCE INTERVAL ENVELOPE
AVERAGE SLOPE OF MEAN IN ug/L/YEAR = -13.3 ppb/yr
ACTUAL DECLINE OBSERVED = 68%

Center curved line is the estimate of the mean concentration over time, statisically derived from the data collected to date.

Inner pair of lines surrounding the center curved line delineates the envelope containing the means of the data points at each point in time with a 95% degree of statistical confidence. I.E. the mean described above could vary anywhere within this inner envelope.

Outer pair of lines delineates the envelope containing the data universe with a 95% degree of statistical confidence.

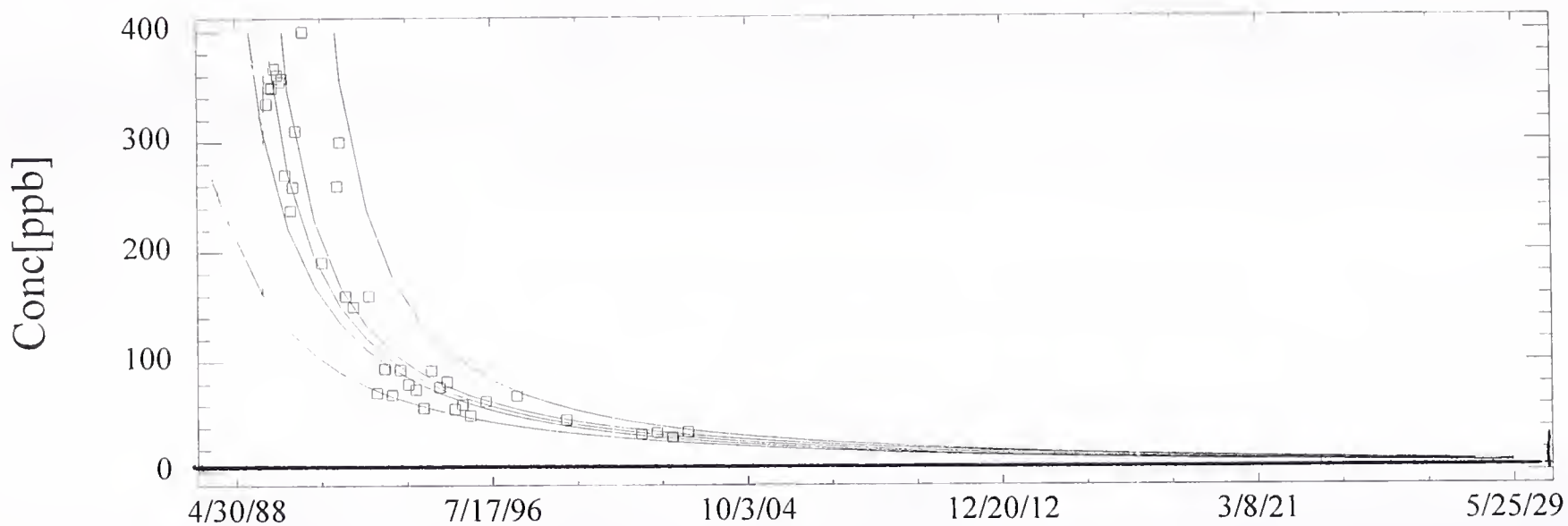
ESTIMATED TIME FRAME FOR
COMPLIANCE WITH MCL LEVEL
>2060

THE BURLINGTON NORTHERN & SANTA FE RAILWAY COMPANY	LIVINGSTON RAIL YARD 2002 ANNUAL GROUNDWATER REPORT	TETRACHLOROETHENE CONCENTRATIONS FOR WELL 89-3
ENVIROCON, INC.	AutoCad FILE: 89-3 PCE	FIGURE 16.0

Plot of Fitted Model

Power=-0.795313, Shift=0.0

L-87-5 PCE



EXPONENTIAL REGRESSION LINE WITH
95% CONFIDENCE INTERVAL ENVELOPE
AVERAGE SLOPE OF MEAN IN ug/L/YEAR = -26.4 ppb/yr
ACTUAL DECLINE OBSERVED = 91%

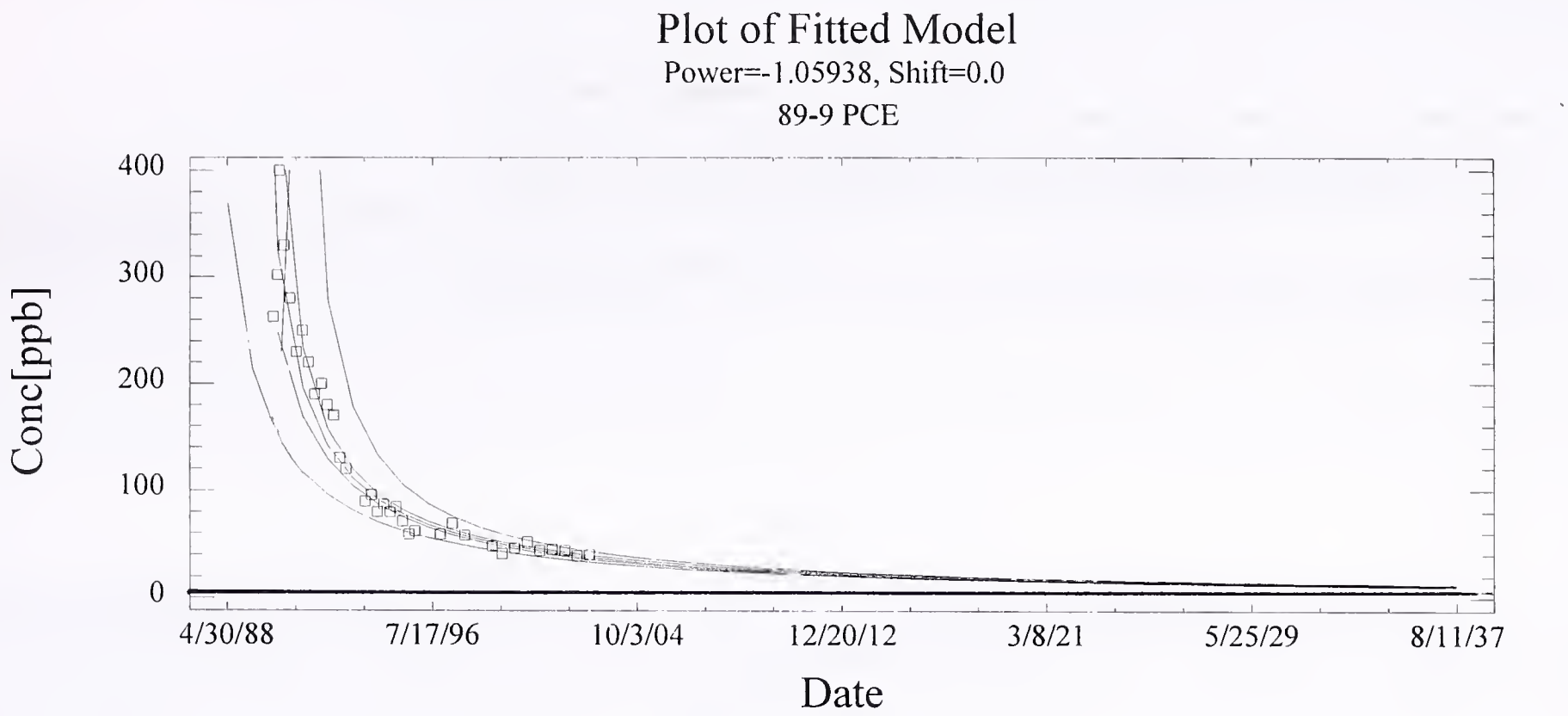
Center curved line is the estimate of the mean concentration over time, statisically derived from the data collected to date.

Inner pair of lines surrounding the center curved line delineates the envelope containing the means of the data points at each point in time with a 95% degree of statistical confidence. I.E. the mean described above could vary anywhere within this inner envelope.

Outer pair of lines delineates the envelope containing the data universe with a 95% degree of statistical confidence.

ESTIMATED TIME FRAME FOR
COMPLIANCE WITH MCL LEVEL
~2030

THE BURLINGTON NORTHERN & SANTA FE RAILWAY COMPANY	LIVINGSTON RAIL YARD 2002 ANNUAL GROUNDWATER REPORT	TETRACHLOROETHENE CONCENTRATIONS FOR WELL L-87-5
ENVIROCON, INC.	AutoCad FILE: L-87-5 PCE	FIGURE 17.0



EXPONENTIAL REGRESSION LINE WITH
95% CONFIDENCE INTERVAL ENVELOPE
AVERAGE SLOPE OF MEAN IN ug/L/YEAR = -26.0 ppb/yr
ACTUAL DECLINE OBSERVED = 90%

Center curved line is the estimate of the mean concentration over time, statisically derived from the data collected to date.

Inner pair of lines surrounding the center curved line delineates the envelope containing the means of the data points at each point in time with a 95% degree of statistical confidence. I.E. the mean described above could vary anywhere within this inner envelope.

Outer pair of lines delineates the envelope containing the data universe with a 95% degree of statistical confidence.

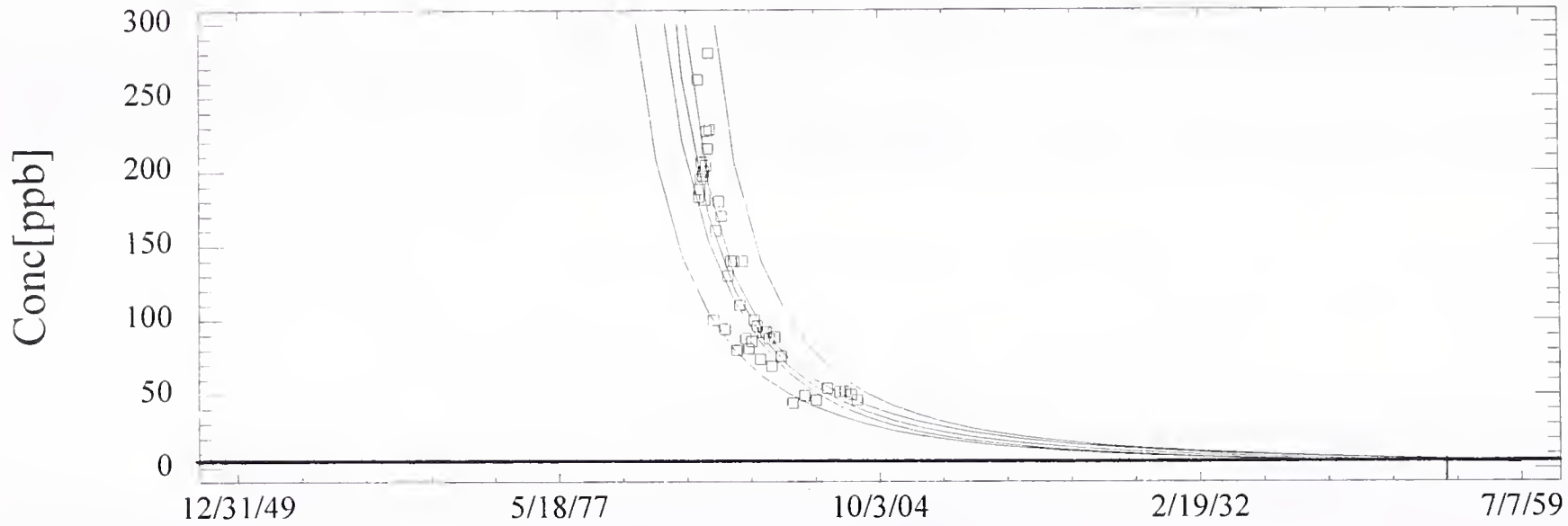
ESTIMATED TIME FRAME FOR
COMPLIANCE WITH MCL LEVEL
~2045

THE BURLINGTON NORTHERN & SANTA FE RAILWAY COMPANY	*LIVINGSTON RAIL YARD 2002 ANNUAL GROUNDWATER REPORT*	*TETRACHLOROETHENE CONCENTRATIONS FOR WELL 89-9*
ENVIROCON, INC.	*AutoCad FILE: 89-9 PCE*	*FIGURE 18.0*

Plot of Fitted Model

Power=-0.553125, Shift=0.0

L-87-3 PCE



EXPONENTIAL REGRESSION LINE WITH
95% CONFIDENCE INTERVAL ENVELOPE
AVERAGE SLOPE OF MEAN IN ug/L/YEAR = -11.9 ppb/yr
ACTUAL DECLINE OBSERVED = 84%

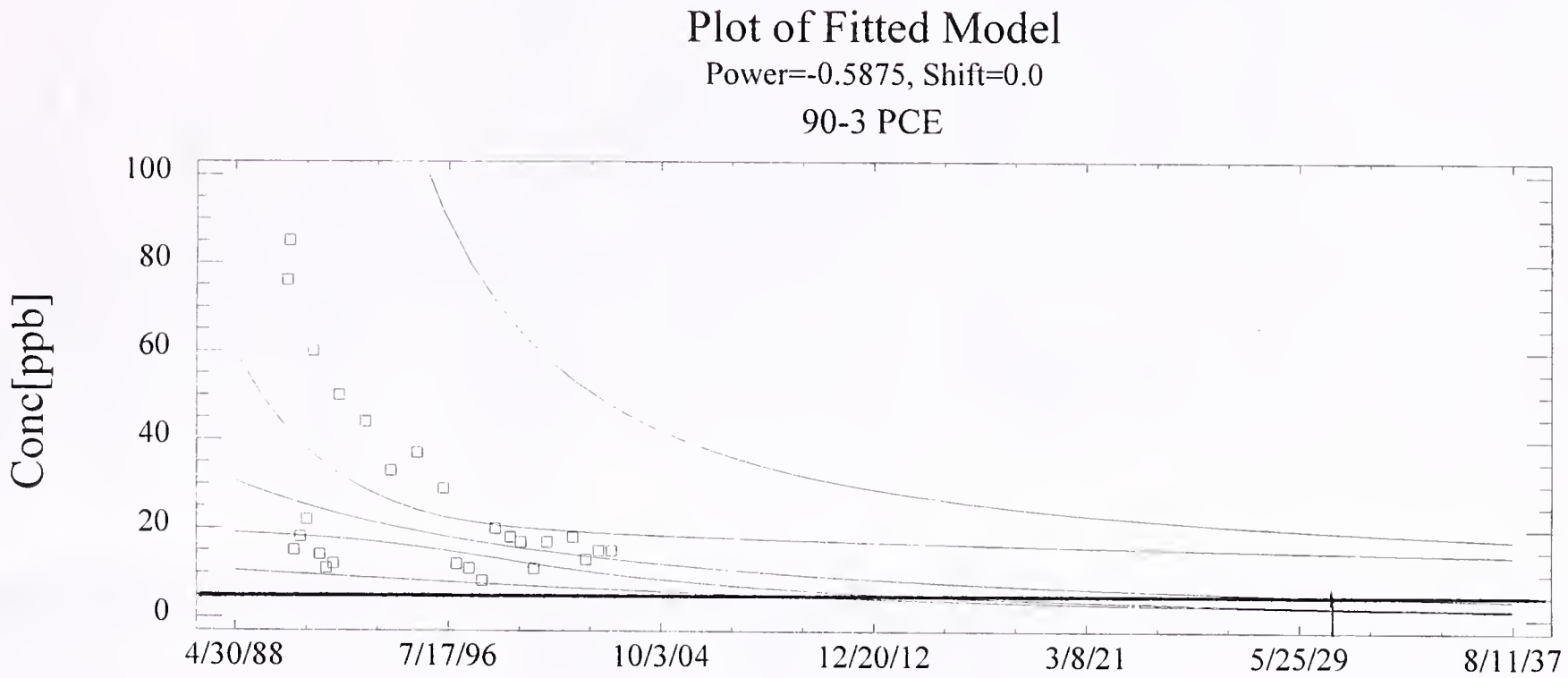
Center curved line is the estimate of the mean concentration over time, statisically derived from the data collected to date.

Inner pair of lines surrounding the center curved line delineates the envelope containing the means of the data points at each point in time with a 95% degree of statistical confidence. I.E. the mean described above could vary anywhere within this inner envelope.

Outer pair of lines delineates the envelope containing the data universe with a 95% degree of statistical confidence.

ESTIMATED TIME FRAME FOR
COMPLIANCE WITH MCL LEVEL
~2050

THE BURLINGTON NORTHERN & SANTA FE RAILWAY COMPANY	LIVINGSTON RAIL YARD 2002 ANNUAL GROUNDWATER REPORT	TETRACHLOROETHENE CONCENTRATIONS FOR WELL L-87-3
ENVIROCON, INC.	AutoCad FILE: L-87-3 PCE	FIGURE 19.0



EXPONENTIAL REGRESSION LINE WITH
95% CONFIDENCE INTERVAL ENVELOPE
AVERAGE SLOPE OF MEAN IN ug/L/YEAR = -1.0 ppb/yr
ACTUAL DECLINE OBSERVED = 82%

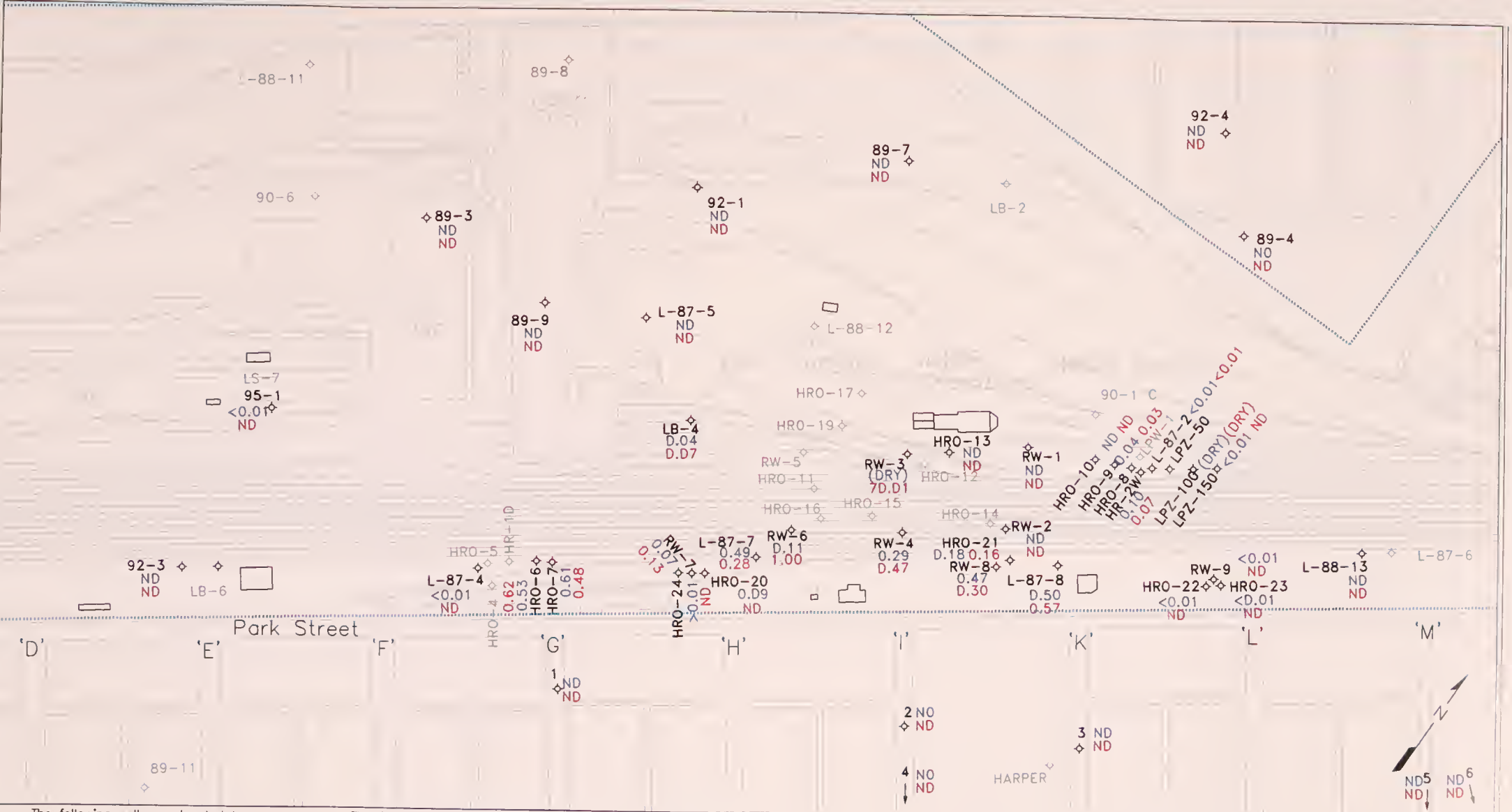
Center curved line is the estimate of the mean concentration over time, statisically derived from the data collected to date.

Inner pair of lines surrounding the center curved line delineates the envelope containing the means of the data points at each point in time with a 95% degree of statistical confidence. I.E. the mean described above could vary anywhere within this inner envelope.

Outer pair of lines delineates the envelope containing the data universe with a 95% degree of statistical confidence.

ESTIMATED TIME FRAME FOR
COMPLIANCE WITH MCL LEVEL
~2030

THE BURLINGTON NORTHERN & SANTA FE RAILWAY COMPANY	*LIVINGSTON RAIL YARD 2002 ANNUAL GROUNDWATER REPORT*	*TETRACHLOROETHENE CONCENTRATIONS FOR WELL 90-3*
ENVIROCON, INC.	*AutoCad FILE: 90-3 PCE*	*FIGURE 20.0*



The following wells are located to the S.W., near the passenger depot

LS-6 ND ND	L-88-9 ND ND	LG-12 ND ND
	LG-11 ND ND	

The following wells are located off this figure (to the east) and did not contain detectable free-product during May & Nov.

89-2	89-1D	90-2B
7	92-2	94-1
89-1	LS-11	94-2
89-6	90-3	L-88-10
L-87-3	MW12	

LEGEND

L-88-13	WELL NUMBER
ND	MAY 2002
ND	NOVEMBER 2002

0 200

Scale: 1" = 200'

PREPARED FOR: BNSF Livingston

Figure 21.0
Apparent Free Product Thickness Measurements (Feet) May & November 2002

PREPARED BY: ENVIROCON
500 TAYLOR STREET
MISSOULA, MONTANA 59807

SCALE 1" = 200'			REVISION
DRAWING No. 140101-fig 21.0 free product plume 2002			
DRAWN BY: J. STONE	CHECKED BY: D. McCAFFERY	DATE: 1/28/03	1



0 800

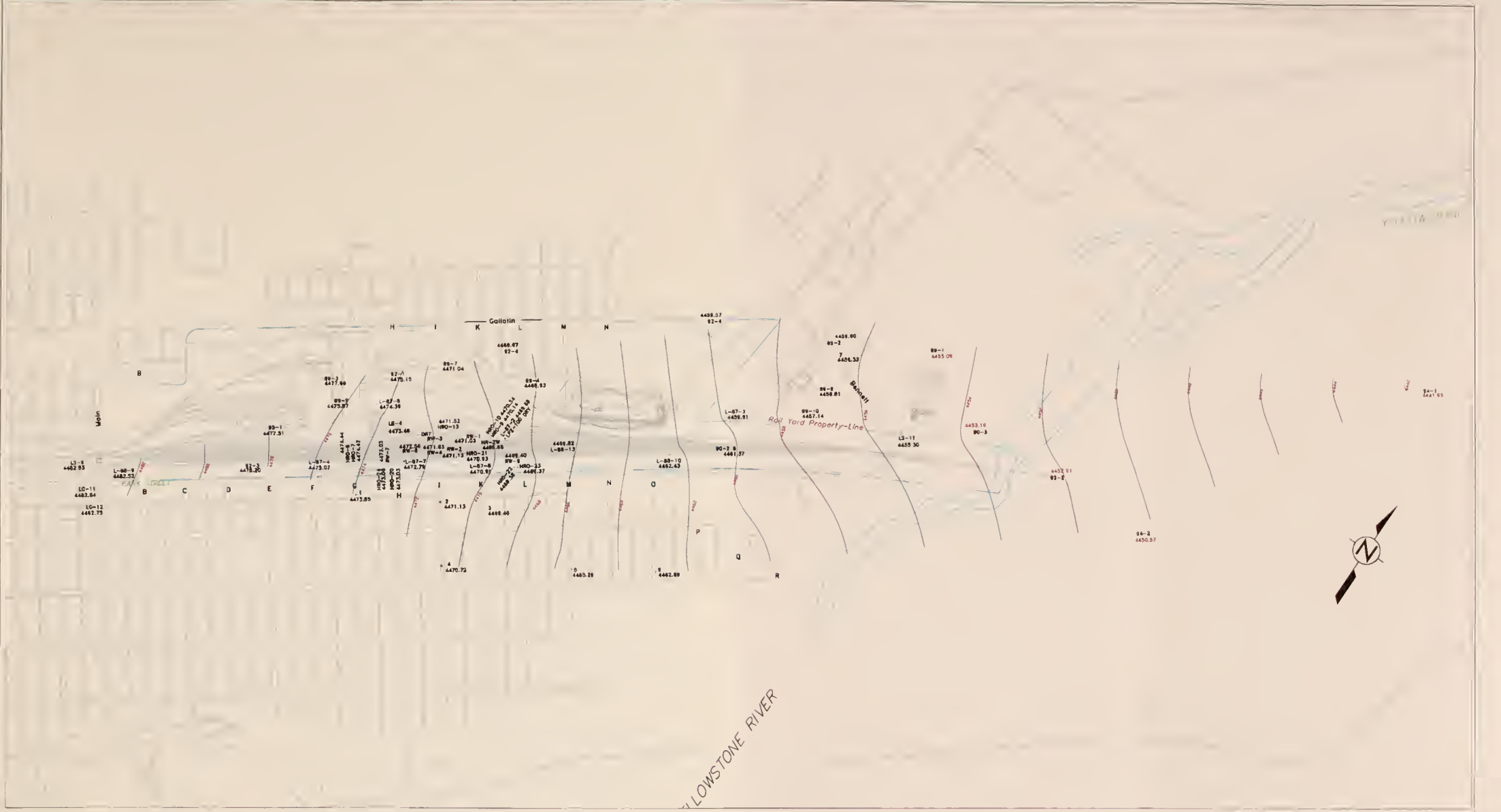
SCALE: 1" = 800'

PREPARED FOR
BNSF
Livingston Rail Yard

PREPARED BY
ENVIROCON
500 TAYLOR STREET
MISSOULA, MONTANA 59807

TITLE
Figure 22.0
May 2002
Water Elevations

SCALE 1" = 800'		REVISION
DRAWING No. 140101-May 2002 Water Elev	PAGE 1 of 1	1
DRAWN BY: J. Stone	CHECKED BY: D. McCaffery	DATE 05/29/02



0 800

SCALE: 1" = 800'

PREPARED FOR: BNSF Livingston Rail Yard	PREPARED BY: ENVIROCON 500 TAYLOR STREET MISSOULA, MONTANA 59807
TITLE: Figure 23.0 November 2002 Water Elevations	SCALE 1" = 800'
	DRAWING No.: 140101-Nov 2002 Water Elev
	PAGE: 1 of 1
	DRAWN BY: J. Stone
	CHECKED BY: D. McCaffery
	DATE: 12/05/02
	REVISION: 1

APPENDIX A

LABORATORY ANALYTICAL RESULTS

MAY 2002

BNSF GROUND WATER SAMPLE RESULTS

ENERGY LABORATORIES, INC. • P.O. Box 30916 • 1120 South 27th Street • Billings, MT 59107-0916
800-735-4489 • 406-252-6325 • 406-252-6069 fax • eli@energylab.com

LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-001
Client Sample ID: 1794

Report Date: 06/10/02
Collection Date: 05/14/02 09:15
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
Bromoform	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/21/02 16:59 / sbd
Chloroform	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
cis-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
Styrene	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
Tetrachloroethene	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • P.O. Box 30916 • 1120 South 27th Street • Billings, MT 59107-0916
800-735-4489 • 406-252-6325 • 406-252-6069 fax • eli@energylab.com

LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-001
Client Sample ID: 1794

Report Date: 06/10/02
Collection Date: 05/14/02 09:15
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
Trichloroethene	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/21/02 16:59 / sbd
Xylenes, Total	ND	ug/L				E624	05/21/02 16:59 / sbd
Surr: 1,2-Dichloroethane-d4	103	%REC			74-127	E624	05/21/02 16:59 / sbd
Surr: p-Bromofluorobenzene	116	%REC			80-120	E624	05/21/02 16:59 / sbd
Surr: Toluene-d8	113	%REC			80-120	E624	05/21/02 16:59 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • P.O. Box 30916 • 1120 South 27th Street • Billings, MT 59107-0916
800-735-4489 • 406-252-6325 • 406-252-6069 fax • eli@energylab.com

LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-002
Client Sample ID: 1795 L-87-3

Report Date: 06/10/02
Collection Date: 05/14/02 10:05
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
Bromoform	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/21/02 17:35 / sbd
Chloroform	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
cis-1,2-Dichloroethene	4.2	ug/L		0.50		E624	05/21/02 17:35 / sbd
trans-1,2-Dichloroethene	0.32	ug/L	J	0.50		E624	05/21/02 17:35 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
Styrene	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
Tetrachloroethene	50	ug/L		5.0		E624	05/22/02 18:32 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-002
Client Sample ID: 1795

Report Date: 06/10/02
Collection Date: 05/14/02 10:05
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
Trichloroethene	4.6	ug/L		0.50		E624	05/21/02 17:35 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/21/02 17:35 / sbd
Xylenes, Total	ND	ug/L				E624	05/21/02 17:35 / sbd
Surr: 1,2-Dichloroethane-d4	101	%REC			74-127	E624	05/21/02 17:35 / sbd
Surr: p-Bromofluorobenzene	115	%REC			80-120	E624	05/21/02 17:35 / sbd
Surr: Toluene-d8	110	%REC			80-120	E624	05/21/02 17:35 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-003
Client Sample ID: 1796 A-87-2

Report Date: 06/10/02
Collection Date: 05/14/02 10:50
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
Bromoform	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
Chlorobenzene	15	ug/L		0.50		E624	05/21/02 18:11 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/21/02 18:11 / sbd
Chloroform	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
2-Chlorotoluene	38	ug/L		5.0		E624	05/22/02 19:07 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
1,2-Dichlorobenzene	1.3	ug/L		0.50		E624	05/21/02 18:11 / sbd
1,3-Dichlorobenzene	0.45	ug/L	J	0.50		E624	05/21/02 18:11 / sbd
1,4-Dichlorobenzene	2.8	ug/L		0.50		E624	05/21/02 18:11 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
cis-1,2-Dichloroethene	11	ug/L		0.50		E624	05/21/02 18:11 / sbd
trans-1,2-Dichloroethene	0.80	ug/L		0.50		E624	05/21/02 18:11 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
Styrene	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
Tetrachloroethene	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-003
Client Sample ID: 1796

Report Date: 06/10/02
Collection Date: 05/14/02 10:50
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	0.27	ug/L	J	0.50		E624	05/21/02 18:11 / sbd
Trichloroethene	9.8	ug/L		0.50		E624	05/21/02 18:11 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
Vinyl chloride	9.1	ug/L		0.50		E624	05/21/02 18:11 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/21/02 18:11 / sbd
o-Xylene	1.1	ug/L		0.50		E624	05/21/02 18:11 / sbd
Xylenes, Total	1.1	ug/L				E624	05/21/02 18:11 / sbd
Surr: 1,2-Dichloroethane-d4	101	%REC			74-127	E624	05/21/02 18:11 / sbd
Surr: p-Bromofluorobenzene	112	%REC			80-120	E624	05/21/02 18:11 / sbd
Surr: Toluene-d8	107	%REC			80-120	E624	05/21/02 18:11 / sbd

Report Definitions:
RL - Analyte reporting limit.
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J - Estimated value. The analyte was present but less than the reporting limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-004
Client Sample ID: 1797 L-87-2 dupl.

Report Date: 06/10/02
Collection Date: 05/14/02 11:00
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
Bromoform	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
Chlorobenzene	15	ug/L		0.50		E624	05/21/02 18:48 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/21/02 18:48 / sbd
Chloroform	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
2-Chlorotoluene	38	ug/L		5.0		E624	05/22/02 19:41 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
1,2-Dichlorobenzene	1.2	ug/L		0.50		E624	05/21/02 18:48 / sbd
1,3-Dichlorobenzene	0.42	ug/L	J	0.50		E624	05/21/02 18:48 / sbd
1,4-Dichlorobenzene	2.7	ug/L		0.50		E624	05/21/02 18:48 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
cis-1,2-Dichloroethene	9.9	ug/L		0.50		E624	05/21/02 18:48 / sbd
trans-1,2-Dichloroethene	0.76	ug/L		0.50		E624	05/21/02 18:48 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
Styrene	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
Tetrachloroethene	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd

Report Definitions:
RL - Analyte reporting limit.
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J - Estimated value. The analyte was present but less than the reporting limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-004
Client Sample ID: 1797

Report Date: 06/10/02
Collection Date: 05/14/02 11:00
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	0.26	ug/L	J	0.50		E624	05/21/02 18:48 / sbd
Trichloroethene	9.4	ug/L		0.50		E624	05/21/02 18:48 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
Vinyl chloride	8.4	ug/L		0.50		E624	05/21/02 18:48 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/21/02 18:48 / sbd
o-Xylene	1.1	ug/L		0.50		E624	05/21/02 18:48 / sbd
Xylenes, Total	1.1	ug/L				E624	05/21/02 18:48 / sbd
Surr: 1,2-Dichloroethane-d4	96.4	%REC			74-127	E624	05/21/02 18:48 / sbd
Surr: p-Bromofluorobenzene	110	%REC			80-120	E624	05/21/02 18:48 / sbd
Surr: Toluene-d8	109	%REC			80-120	E624	05/21/02 18:48 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-005
Client Sample ID: 1798 L-87-5

Report Date: 06/10/02
Collection Date: 05/14/02 11:45
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
Bromoform	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/21/02 19:25 / sbd
Chloroform	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
cis-1,2-Dichloroethene	0.73	ug/L		0.50		E624	05/21/02 19:25 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
Styrene	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
Tetrachloroethene	31	ug/L		5.0		E624	05/22/02 20:15 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-005
Client Sample ID: 1798

Report Date: 06/10/02
Collection Date: 05/14/02 11:45
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
Trichloroethene	1.3	ug/L		0.50		E624	05/21/02 19:25 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/21/02 19:25 / sbd
Xylenes, Total	ND	ug/L				E624	05/21/02 19:25 / sbd
Surr: 1,2-Dichloroethane-d4	98.4	%REC			74-127	E624	05/21/02 19:25 / sbd
Surr: p-Bromofluorobenzene	114	%REC			80-120	E624	05/21/02 19:25 / sbd
Surr: Toluene-d8	109	%REC			80-120	E624	05/21/02 19:25 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-006
Client Sample ID: 1799 LS-11

Report Date: 06/10/02
Collection Date: 05/14/02 13:00
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
Bromoform	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/21/02 20:01 / sbd
Chloroform	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
1,4-Dichlorobenzene	0.28	ug/L	J	0.50		E624	05/21/02 20:01 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
cis-1,2-Dichloroethene	3.5	ug/L		0.50		E624	05/21/02 20:01 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
Styrene	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
Tetrachloroethene	17	ug/L		0.50		E624	05/21/02 20:01 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-006
Client Sample ID: 1799

Report Date: 06/10/02
Collection Date: 05/14/02 13:00
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
Trichloroethene	4.0	ug/L		0.50		E624	05/21/02 20:01 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/21/02 20:01 / sbd
Xylenes, Total	ND	ug/L				E624	05/21/02 20:01 / sbd
Surr: 1,2-Dichloroethane-d4	99.6	%REC			74-127	E624	05/21/02 20:01 / sbd
Surr: p-Bromofluorobenzene	110	%REC			80-120	E624	05/21/02 20:01 / sbd
Surr: Toluene-d8	107	%REC			80-120	E624	05/21/02 20:01 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-007
Client Sample ID: 1800 90-3

Report Date: 06/10/02
Collection Date: 05/14/02 13:45
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
Bromoform	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/21/02 20:38 / sbd
Chloroform	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
cis-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
Styrene	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
Tetrachloroethene	15	ug/L		0.50		E624	05/21/02 20:38 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-007
Client Sample ID: 1800

Report Date: 06/10/02
Collection Date: 05/14/02 13:45
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
Trichloroethene	0.54	ug/L		0.50		E624	05/21/02 20:38 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/21/02 20:38 / sbd
Xylenes, Total	ND	ug/L				E624	05/21/02 20:38 / sbd
Surr: 1,2-Dichloroethane-d4	99.2	%REC			74-127	E624	05/21/02 20:38 / sbd
Surr: p-Bromofluorobenzene	110	%REC			80-120	E624	05/21/02 20:38 / sbd
Surr: Toluene-d8	110	%REC			80-120	E624	05/21/02 20:38 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-008
Client Sample ID: 1801 9A-2

Report Date: 06/10/02
Collection Date: 05/14/02 15:00
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
Bromoform	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/22/02 00:19 / sbd
Chloroform	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
cis-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
Styrene	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
Tetrachloroethene	0.23	ug/L	J	0.50		E624	05/22/02 00:19 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-008
Client Sample ID: 1801

Report Date: 06/10/02
Collection Date: 05/14/02 15:00
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
Trichloroethene	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/22/02 00:19 / sbd
Xylenes, Total	ND	ug/L				E624	05/22/02 00:19 / sbd
Surr: 1,2-Dichloroethane-d4	98.4	%REC			74-127	E624	05/22/02 00:19 / sbd
Surr: p-Bromofluorobenzene	110	%REC			80-120	E624	05/22/02 00:19 / sbd
Surr: Toluene-d8	110	%REC			80-120	E624	05/22/02 00:19 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-009
Client Sample ID: 1802 92-2

Report Date: 06/10/02
Collection Date: 05/14/02 16:00
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
Bromoform	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/22/02 00:56 / sbd
Chloroform	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
cis-1,2-Dichloroethene	0.43	ug/L	J	0.50		E624	05/22/02 00:56 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
Styrene	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
Tetrachloroethene	11	ug/L		0.50		E624	05/22/02 00:56 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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800-735-4489 • 406-252-6325 • 406-252-6069 fax • eli@energylab.com

LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-009
Client Sample ID: 1802

Report Date: 06/10/02
Collection Date: 05/14/02 16:00
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
Trichloroethene	0.76	ug/L		0.50		E624	05/22/02 00:56 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/22/02 00:56 / sbd
Xylenes, Total	ND	ug/L				E624	05/22/02 00:56 / sbd
Surr: 1,2-Dichloroethane-d4	101	%REC			74-127	E624	05/22/02 00:56 / sbd
Surr: p-Bromofluorobenzene	112	%REC			80-120	E624	05/22/02 00:56 / sbd
Surr: Toluene-d8	111	%REC			80-120	E624	05/22/02 00:56 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-010
Client Sample ID: 1803 94-1

Report Date: 06/10/02
Collection Date: 05/14/02 17:00
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
Bromoform	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/22/02 01:33 / sbd
Chloroform	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
cis-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
Styrene	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
Tetrachloroethene	1.4	ug/L		0.50		E624	05/22/02 01:33 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-010
Client Sample ID: 1803

Report Date: 06/10/02
Collection Date: 05/14/02 17:00
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
Trichloroethene	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/22/02 01:33 / sbd
Xylenes, Total	ND	ug/L				E624	05/22/02 01:33 / sbd
Surr: 1,2-Dichloroethane-d4	104	%REC			74-127	E624	05/22/02 01:33 / sbd
Surr: p-Bromofluorobenzene	112	%REC			80-120	E624	05/22/02 01:33 / sbd
Surr: Toluene-d8	110	%REC			80-120	E624	05/22/02 01:33 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-011
Client Sample ID: 1804 89-2

Report Date: 06/10/02
Collection Date: 05/15/02 09:55
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
Bromoform	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/22/02 02:11 / sbd
Chloroform	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
cis-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
Styrene	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
Tetrachloroethene	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-011
Client Sample ID: 1804

Report Date: 06/10/02
Collection Date: 05/15/02 09:55
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
Trichloroethene	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/22/02 02:11 / sbd
Xylenes, Total	ND	ug/L				E624	05/22/02 02:11 / sbd
Surr: 1,2-Dichloroethane-d4	103	%REC			74-127	E624	05/22/02 02:11 / sbd
Surr: p-Bromofluorobenzene	114	%REC			80-120	E624	05/22/02 02:11 / sbd
Surr: Toluene-d8	113	%REC			80-120	E624	05/22/02 02:11 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-012
Client Sample ID: 1805 92-4

Report Date: 06/10/02
Collection Date: 05/15/02 11:10
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
Bromoform	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/22/02 02:48 / sbd
Chloroform	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
cis-1,2-Dichloroethene	0.33	ug/L	J	0.50		E624	05/22/02 02:48 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
Styrene	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
Tetrachloroethene	36	ug/L		5.0		E624	05/22/02 20:49 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-012
Client Sample ID: 1805

Report Date: 06/10/02
Collection Date: 05/15/02 11:10
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
Trichloroethene	1.0	ug/L		0.50		E624	05/22/02 02:48 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/22/02 02:48 / sbd
Xylenes, Total	ND	ug/L				E624	05/22/02 02:48 / sbd
Surr: 1,2-Dichloroethane-d4	102	%REC			74-127	E624	05/22/02 02:48 / sbd
Surr: p-Bromofluorobenzene	112	%REC			80-120	E624	05/22/02 02:48 / sbd
Surr: Toluene-d8	110	%REC			80-120	E624	05/22/02 02:48 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-013
Client Sample ID: 1806 89-H

Report Date: 06/10/02
Collection Date: 05/15/02 11:55
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
Bromoform	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/22/02 03:25 / sbd
Chloroform	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
cis-1,2-Dichloroethene	1.1	ug/L		0.50		E624	05/22/02 03:25 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
Styrene	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
Tetrachloroethene	84	ug/L		5.0		E624	05/22/02 21:23 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-013
Client Sample ID: 1806

Report Date: 06/10/02
Collection Date: 05/15/02 11:55
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
Trichloroethene	1.1	ug/L		0.50		E624	05/22/02 03:25 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/22/02 03:25 / sbd
Xylenes, Total	ND	ug/L				E624	05/22/02 03:25 / sbd
Surr: 1,2-Dichloroethane-d4	102	%REC			74-127	E624	05/22/02 03:25 / sbd
Surr: p-Bromofluorobenzene	114	%REC			80-120	E624	05/22/02 03:25 / sbd
Surr: Toluene-d8	109	%REC			80-120	E624	05/22/02 03:25 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-014
Client Sample ID: 1807 92-1

Report Date: 06/10/02
Collection Date: 05/15/02 13:05
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
Bromoform	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/22/02 04:01 / sbd
Chloroform	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
cis-1,2-Dichloroethene	1.2	ug/L		0.50		E624	05/22/02 04:01 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
Styrene	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
Tetrachloroethene	74	ug/L		5.0		E624	05/22/02 21:57 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-014
Client Sample ID: 1807

Report Date: 06/10/02
Collection Date: 05/15/02 13:05
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
Trichloroethene	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/22/02 04:01 / sbd
Xylenes, Total	ND	ug/L				E624	05/22/02 04:01 / sbd
Surr: 1,2-Dichloroethane-d4	103	%REC			74-127	E624	05/22/02 04:01 / sbd
Surr: p-Bromofluorobenzene	114	%REC			80-120	E624	05/22/02 04:01 / sbd
Surr: Toluene-d8	108	%REC			80-120	E624	05/22/02 04:01 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-015
Client Sample ID: 1809 89-9

Report Date: 06/10/02
Collection Date: 05/15/02 14:10
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
Bromoform	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/22/02 04:38 / sbd
Chloroform	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
cis-1,2-Dichloroethene	0.81	ug/L		0.50		E624	05/22/02 04:38 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
Styrene	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
Tetrachloroethene	39	ug/L		5.0		E624	05/23/02 01:51 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-015
Client Sample ID: 1809

Report Date: 06/10/02
Collection Date: 05/15/02 14:10
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
Trichloroethene	1.2	ug/L		0.50		E624	05/22/02 04:38 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/22/02 04:38 / sbd
Xylenes, Total	ND	ug/L				E624	05/22/02 04:38 / sbd
Surr: 1,2-Dichloroethane-d4	102	%REC			74-127	E624	05/22/02 04:38 / sbd
Surr: p-Bromofluorobenzene	116	%REC			80-120	E624	05/22/02 04:38 / sbd
Surr: Toluene-d8	110	%REC			80-120	E624	05/22/02 04:38 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-016
Client Sample ID: 1810 89-3

Report Date: 06/10/02
Collection Date: 05/15/02 15:00
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
Bromoform	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/22/02 05:14 / sbd
Chloroform	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
cis-1,2-Dichloroethene	1.0	ug/L		0.50		E624	05/22/02 05:14 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
Styrene	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
Tetrachloroethene	104	ug/L		5.0		E624	05/23/02 02:24 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd

Report Definitions:
RL - Analyte reporting limit.
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MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston
Lab ID: B02050729-016
Client Sample ID: 1810

Report Date: 06/10/02
Collection Date: 05/15/02 15:00
Date Received: 05/16/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
Trichloroethene	1.7	ug/L		0.50		E624	05/22/02 05:14 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/22/02 05:14 / sbd
Xylenes, Total	ND	ug/L				E624	05/22/02 05:14 / sbd
Surr: 1,2-Dichloroethane-d4	103	%REC			74-127	E624	05/22/02 05:14 / sbd
Surr: p-Bromofluorobenzene	116	%REC			80-120	E624	05/22/02 05:14 / sbd
Surr: Toluene-d8	111	%REC			80-120	E624	05/22/02 05:14 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston

Report Date: 06/10/02
Work Order: B02050729

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **E624**									Batch: R9097
Sample ID: **LCS052102**	Laboratory Control Spike								05/21/02 10:38
Benzene	4.6	ug/L	0.500	92	37	151			
Bromobenzene	4.64	ug/L	0.500	92.8	60	140			
Bromochloromethane	4.72	ug/L	0.500	94.4	60	140			
Bromodichloromethane	4.44	ug/L	0.500	88.8	35	155			
Bromoform	4.56	ug/L	0.500	91.2	45	169			
Bromomethane	5	ug/L	0.500	100	10	242			
Carbon tetrachloride	4.52	ug/L	0.500	90.4	70	140			
Chlorobenzene	4.72	ug/L	0.500	94.4	37	160			
Chlorodibromomethane	4.56	ug/L	0.500	91.2	53	149			
Chloroethane	5.28	ug/L	0.500	106	14	230			
2-Chloroethyl vinyl ether	4.36	ug/L	1.00	87.2	10	305			
Chloroform	4.36	ug/L	0.500	87.2	51	138			
Chloromethane	5.68	ug/L	0.500	114	10	273			
2-Chlorotoluene	4.72	ug/L	0.500	94.4	60	140			
4-Chlorotoluene	4.64	ug/L	0.500	92.8	60	140			
1,2-Dibromoethane	4.4	ug/L	0.500	88	60	140			
Dibromomethane	4.56	ug/L	0.500	91.2	60	140			
1,2-Dichlorobenzene	4.8	ug/L	0.500	96	18	190			
1,3-Dichlorobenzene	4.6	ug/L	0.500	92	59	156			
1,4-Dichlorobenzene	4.68	ug/L	0.500	93.6	18	190			
Dichlorodifluoromethane	5.68	ug/L	0.500	114	60	140			
1,1-Dichloroethane	4.88	ug/L	0.500	97.6	59	155			
1,2-Dichloroethane	4.76	ug/L	0.500	95.2	49	155			
1,1-Dichloroethene	4.8	ug/L	0.500	96	10	134			
cis-1,2-Dichloroethene	4.6	ug/L	0.500	92	60	140			
trans-1,2-Dichloroethene	4.84	ug/L	0.500	96.8	54	156			
1,2-Dichloropropane	4.32	ug/L	0.500	86.4	10	210			
1,3-Dichloropropane	4.32	ug/L	0.500	86.4	60	140			
2,2-Dichloropropane	4.84	ug/L	0.500	96.8	60	140			
1,1-Dichloropropene	4.36	ug/L	0.500	87.2	60	140			
cis-1,3-Dichloropropene	4.36	ug/L	0.500	87.2	10	227			
trans-1,3-Dichloropropene	4.8	ug/L	0.500	96	17	183			
Ethylbenzene	4.64	ug/L	0.500	92.8	37	162			
Methylene chloride	4.68	ug/L	0.500	93.6	10	221			
Styrene	4.6	ug/L	0.500	92	60	140			
Tetrachloroethene	4.72	ug/L	0.500	94.4	64	148			
1,1,1,2-Tetrachloroethane	4.36	ug/L	0.500	87.2	60	140			
1,1,2,2-Tetrachloroethane	4.36	ug/L	0.500	87.2	46	157			
Toluene	4.8	ug/L	0.500	96	47	150			
Trichloroethene	4.4	ug/L	0.500	88	71	157			
1,1,1-Trichloroethane	4.56	ug/L	0.500	91.2	52	162			
1,1,2-Trichloroethane	4.36	ug/L	0.500	87.2	52	150			
Trichlorofluoromethane	5.16	ug/L	0.500	103	17	181			

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

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QA/QC Summary Report

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston

Report Date: 06/10/02
Work Order: B02050729

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R9097
Sample ID: LCS052102	Laboratory Control Spike								05/21/02 10:38
1,2,3-Trichloropropane	4.32	ug/L	0.500	86.4	60	140			
Vinyl chloride	5.72	ug/L	0.500	114	10	251			
m+p-Xylenes	9.36	ug/L	0.500	93.6	60	140			
o-Xylene	4.8	ug/L	0.500	96	60	140			
Xylenes, Total	14.2	ug/L		94.4	60	140			
Surr: 1,2-Dichloroethane-d4			0.500	103	74	127			
Surr: p-Bromofluorobenzene			0.500	110	80	120			
Surr: Toluene-d8			0.500	112	80	120			
Sample ID: MBLK052102	Method Blank								05/21/02 11:13
Benzene	ND	ug/L	0.500						
Bromobenzene	ND	ug/L	0.500						
Bromochloromethane	ND	ug/L	0.500						
Bromodichloromethane	ND	ug/L	0.500						
Bromoform	ND	ug/L	0.500						
Bromomethane	ND	ug/L	0.500						
Carbon tetrachloride	ND	ug/L	0.500						
Chlorobenzene	ND	ug/L	0.500						
Chlorodibromomethane	ND	ug/L	0.500						
Chloroethane	ND	ug/L	0.500						
2-Chloroethyl vinyl ether	ND	ug/L	1.00						
Chloroform	ND	ug/L	0.500						
Chloromethane	ND	ug/L	0.500						
2-Chlorotoluene	ND	ug/L	0.500						
4-Chlorotoluene	ND	ug/L	0.500						
1,2-Dibromoethane	ND	ug/L	0.500						
Dibromomethane	ND	ug/L	0.500						
1,2-Dichlorobenzene	ND	ug/L	0.500						
1,3-Dichlorobenzene	ND	ug/L	0.500						
1,4-Dichlorobenzene	ND	ug/L	0.500						
Dichlorodifluoromethane	ND	ug/L	0.500						
1,1-Dichloroethane	ND	ug/L	0.500						
1,2-Dichloroethane	ND	ug/L	0.500						
1,1-Dichloroethene	ND	ug/L	0.500						
cis-1,2-Dichloroethene	ND	ug/L	0.500						
trans-1,2-Dichloroethene	ND	ug/L	0.500						
1,2-Dichloropropane	ND	ug/L	0.500						
1,3-Dichloropropane	ND	ug/L	0.500						
2,2-Dichloropropane	ND	ug/L	0.500						
1,1-Dichloropropene	ND	ug/L	0.500						
cis-1,3-Dichloropropene	ND	ug/L	0.500						
trans-1,3-Dichloropropene	ND	ug/L	0.500						
Ethylbenzene	ND	ug/L	0.500						

Qualifiers: ND - Not Detected at the Reporting Limit
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits

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QA/QC Summary Report

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston

Report Date: 06/10/02
Work Order: B02050729

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R9097
Sample ID: MBLK052102	Method Blank								05/21/02 11:13
Methylene chloride	ND	ug/L	0.500						
Styrene	ND	ug/L	0.500						
Tetrachloroethene	ND	ug/L	0.500						
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500						
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500						
Toluene	ND	ug/L	0.500						
Trichloroethene	ND	ug/L	0.500						
1,1,1-Trichloroethane	ND	ug/L	0.500						
1,1,2-Trichloroethane	ND	ug/L	0.500						
Trichlorofluoromethane	ND	ug/L	0.500						
1,2,3-Trichloropropane	ND	ug/L	0.500						
Vinyl chloride	ND	ug/L	0.500						
m+p-Xylenes	ND	ug/L	0.500						
o-Xylene	ND	ug/L	0.500						
Xylenes, Total	ND	ug/L							
Surr: 1,2-Dichloroethane-d4			0.500	103	74	127			
Surr: p-Bromofluorobenzene			0.500	113	80	120			
Surr: Toluene-d8			0.500	112	80	120			
Sample ID: MBLKA052102	Method Blank								05/21/02 23:41
Benzene	ND	ug/L	0.500						
Bromobenzene	ND	ug/L	0.500						
Bromochloromethane	ND	ug/L	0.500						
Bromodichloromethane	ND	ug/L	0.500						
Bromoform	ND	ug/L	0.500						
Bromomethane	ND	ug/L	0.500						
Carbon tetrachloride	ND	ug/L	0.500						
Chlorobenzene	ND	ug/L	0.500						
Chlorodibromomethane	ND	ug/L	0.500						
Chloroethane	ND	ug/L	0.500						
2-Chloroethyl vinyl ether	ND	ug/L	1.00						
Chloroform	ND	ug/L	0.500						
Chloromethane	ND	ug/L	0.500						
2-Chlorotoluene	ND	ug/L	0.500						
4-Chlorotoluene	ND	ug/L	0.500						
1,2-Dibromoethane	ND	ug/L	0.500						
Dibromomethane	ND	ug/L	0.500						
1,2-Dichlorobenzene	ND	ug/L	0.500						
1,3-Dichlorobenzene	ND	ug/L	0.500						
1,4-Dichlorobenzene	ND	ug/L	0.500						
Dichlorodifluoromethane	ND	ug/L	0.500						
1,1-Dichloroethane	ND	ug/L	0.500						
1,2-Dichloroethane	ND	ug/L	0.500						

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

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QA/QC Summary Report

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston

Report Date: 06/10/02
Work Order: B02050729

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R9097
Sample ID: MBLKA052102	Method Blank								05/21/02 23:41
1,1-Dichloroethene	ND	ug/L	0.500						
cis-1,2-Dichloroethene	ND	ug/L	0.500						
trans-1,2-Dichloroethene	ND	ug/L	0.500						
1,2-Dichloropropane	ND	ug/L	0.500						
1,3-Dichloropropane	ND	ug/L	0.500						
2,2-Dichloropropane	ND	ug/L	0.500						
1,1-Dichloropropene	ND	ug/L	0.500						
cis-1,3-Dichloropropene	ND	ug/L	0.500						
trans-1,3-Dichloropropene	ND	ug/L	0.500						
Ethylbenzene	ND	ug/L	0.500						
Methylene chloride	ND	ug/L	0.500						
Styrene	ND	ug/L	0.500						
Tetrachloroethene	ND	ug/L	0.500						
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500						
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500						
Toluene	ND	ug/L	0.500						
Trichloroethene	ND	ug/L	0.500						
1,1,1-Trichloroethane	ND	ug/L	0.500						
1,1,2-Trichloroethane	ND	ug/L	0.500						
Trichlorofluoromethane	ND	ug/L	0.500						
1,2,3-Trichloropropane	ND	ug/L	0.500						
Vinyl chloride	ND	ug/L	0.500						
m+p-Xylenes	ND	ug/L	0.500						
o-Xylene	ND	ug/L	0.500						
Xylenes, Total	ND	ug/L							
Surr: 1,2-Dichloroethane-d4			0.500	104	74	127			
Surr: p-Bromofluorobenzene			0.500	112	80	120			
Surr: Toluene-d8			0.500	109	80	120			
Sample ID: B02050729-008AMS	Sample Matrix Spike								05/22/02 22:31
Benzene	4.2	ug/L	0.500	84	37	151			
Bromobenzene	4.36	ug/L	0.500	87.2	60	140			
Bromochloromethane	4.24	ug/L	0.500	84.8	60	140			
Bromodichloromethane	3.9	ug/L	0.500	78	35	155			
Bromoform	3.18	ug/L	0.500	63.5	45	169			
Bromomethane	4.24	ug/L	0.500	84.8	10	242			
Carbon tetrachloride	3.96	ug/L	0.500	79.1	70	140			
Chlorobenzene	4.24	ug/L	0.500	84.8	37	160			
Chlorodibromomethane	3.7	ug/L	0.500	74.1	53	149			
Chloroethane	5.04	ug/L	0.500	101	14	230			
2-Chloroethyl vinyl ether	ND	ug/L	1.00	0	10	305			S
Chloroform	3.96	ug/L	0.500	79.2	51	138			
Chloromethane	4.96	ug/L	0.500	99.2	10	273			

Qualifiers: ND - Not Detected at the Reporting Limit
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits

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QA/QC Summary Report

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF-Livingston

Report Date: 06/10/02
Work Order: B02050729

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **E624**									Batch: R9097
Sample ID: **B02050729-008AMS**	Sample Matrix Spike								05/22/02 22:31
2-Chlorotoluene	4.56	ug/L	0.500	91.2	60	140			
4-Chlorotoluene	4.32	ug/L	0.500	86.4	60	140			
1,2-Dibromoethane	3.78	ug/L	0.500	75.5	60	140			
Dibromomethane	4.04	ug/L	0.500	80.8	60	140			
1,2-Dichlorobenzene	4.36	ug/L	0.500	87.2	18	190			
1,3-Dichlorobenzene	4.24	ug/L	0.500	84.8	59	156			
1,4-Dichlorobenzene	4.32	ug/L	0.500	86.4	18	190			
Dichlorodifluoromethane	4.92	ug/L	0.500	98.4	60	140			
1,1-Dichloroethane	4.52	ug/L	0.500	90.4	59	155			
1,2-Dichloroethane	4.08	ug/L	0.500	81.6	49	155			
1,1-Dichloroethene	4.44	ug/L	0.500	88.8	10	134			
cis-1,2-Dichloroethene	4.04	ug/L	0.500	80.8	60	140			
trans-1,2-Dichloroethene	4.64	ug/L	0.500	92.8	54	156			
1,2-Dichloropropane	3.93	ug/L	0.500	78.6	10	210			
1,3-Dichloropropane	3.87	ug/L	0.500	77.4	60	140			
2,2-Dichloropropane	3.87	ug/L	0.500	77.4	60	140			
1,1-Dichloropropene	3.91	ug/L	0.500	78.2	60	140			
cis-1,3-Dichloropropene	3.61	ug/L	0.500	72.2	10	227			
trans-1,3-Dichloropropene	3.71	ug/L	0.500	74.2	17	183			
Ethylbenzene	4.08	ug/L	0.500	81.6	37	162			
Methylene chloride	4.2	ug/L	0.500	84	10	221			
Styrene	4.08	ug/L	0.500	81.6	60	140			
Tetrachloroethene	4.48	ug/L	0.500	84.9	64	148			
1,1,1,2-Tetrachloroethane	3.9	ug/L	0.500	78.1	60	140			
1,1,2,2-Tetrachloroethane	4.04	ug/L	0.500	80.8	46	157			
Toluene	4.12	ug/L	0.500	82.4	47	150			
Trichloroethene	4.08	ug/L	0.500	81.6	71	157			
1,1,1-Trichloroethane	3.94	ug/L	0.500	78.7	52	162			
1,1,2-Trichloroethane	3.85	ug/L	0.500	77	52	150			
Trichlorofluoromethane	4.32	ug/L	0.500	86.4	17	181			
1,2,3-Trichloropropane	3.86	ug/L	0.500	77.2	60	140			
Vinyl chloride	5.92	ug/L	0.500	118	10	251			
m+p-Xylenes	8.44	ug/L	0.500	84.4	60	140			
o-Xylene	4.32	ug/L	0.500	86.4	60	140			
Xylenes, Total	12.8	ug/L		85.1	60	140			
Surr: 1,2-Dichloroethane-d4			0.500	98.4	74	127			
Surr: p-Bromofluorobenzene			0.500	114	80	120			
Surr: Toluene-d8			0.500	108	80	120			

Qualifiers: ND - Not Detected at the Reporting Limit
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits

Energy Laboratories Inc

Sample Receipt Checklist

Client Name: **ENVRCN-INC** Date and Time Received: **5/16/02**

Work Order Number: **B02050729** Received by: rln

Checklist completed by: _____ 05/16/02 Reviewed by: HK 5-17-02
Signature Date Initials Date

Carrier name: Bus

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	4 °C
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by: _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments:

_____

_____

Corrective Action: _____

_____

_____

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ANALYTICAL SUMMARY REPORT

June 17, 2002

Dan McCaffery
Envirocon Inc
PO Box 16655
Missoula, MT 59808

Workorder No.: B02050729
Project Name: Proj. No. 140101, BNSF-Livingston

Energy Laboratories Inc received the following 17 samples from Envirocon Inc on 5/16/2002 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B02050729-001	1794	05/14/02 9:15	05/16/02	Aqueous	624-Purgeable Organics
B02050729-002	1795	05/14/02 10:05	05/16/02	Aqueous	Same As Above
B02050729-003	1796	05/14/02 10:50	05/16/02	Aqueous	Same As Above
B02050729-004	1797	05/14/02 11:00	05/16/02	Aqueous	Same As Above
B02050729-005	1798	05/14/02 11:45	05/16/02	Aqueous	Same As Above
B02050729-006	1799	05/14/02 13:00	05/16/02	Aqueous	Same As Above
B02050729-007	1800	05/14/02 13:45	05/16/02	Aqueous	Same As Above
B02050729-008	1801	05/14/02 15:00	05/16/02	Aqueous	Same As Above
B02050729-009	1802	05/14/02 16:00	05/16/02	Aqueous	Same As Above
B02050729-010	1803	05/14/02 17:00	05/16/02	Aqueous	Same As Above
B02050729-011	1804	05/15/02 9:55	05/16/02	Aqueous	Same As Above
B02050729-012	1805	05/15/02 11:10	05/16/02	Aqueous	Same As Above
B02050729-013	1806	05/15/02 11:55	05/16/02	Aqueous	Same As Above
B02050729-014	1807	05/15/02 13:05	05/16/02	Aqueous	Same As Above
B02050729-015	1809	05/15/02 14:10	05/16/02	Aqueous	Same As Above
B02050729-016	1810	05/15/02 15:00	05/16/02	Aqueous	Same As Above
B02050729-017	1808	05/15/02 13:15	05/16/02	Aqueous	13:15 5/15

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except if noted in report comments or the Case Narrative.

If you have any questions regarding these tests results, please call .

Report Approved By: _____

ENVIROCON, INC.

CHAIN OF CUSTODY RECORD

4

PROJ. NO. 170101 | PROJECT NAME BNSF/Livingston

SAMPLERS: (Signature) Dan McCaffery

STAT. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs by 8260	REMARKS
D020529-001	5/14/02	~~9:15~~ 9:50		X	1794	2 (A+B)	X	Analyze only either A or B
002		10:05			1795		X	
003		10:32			1796		X	Send results to:
004		11:00			1797		X	
005		11:45			1798		X	Attn: Dan McCaffery
006		13:00			1799		X	
007		13:45			1800		X	Envirocon
008		15:20			1801		X	PO 16655
009		16:20			1802		X	Missoula, MT
010	↓	17:00	↓	↓	1803	↓	X	59808

phone - (406) 523-1186
FAX - 543-7987

Relinquished (Signature)	Date/Time	Received by: (Signature)	Relinguished by: (Signature)	Date/Time	Received by: (Signature)
Dan McCaffery	5/15/02 1950				
Relinquished (Signature)	Date/Time	Received by: (Signature)	Relinguished by: (Signature)	Date/Time	Received by: (Signature)

Chain of Custody Seal:

Intact? (yes/no) N. Seal

Lab Personnel (receiving)

Signature: [signature] 05/16/02 0700

Remarks

Split Samples:
[] Accepted [] Declined

ENVIROCON, INC.

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
40101	BNSF/Livingston

SAMPLERS: *(Signature)* Dan McCaffery

STAT. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs by 624	52 H2 VOCs	REMARKS
B0305[illegible]29-011	5/15/02	9[55]		X	1804	2(A+B)	X		Analyse only either A or B of
012		11[10]			1805		X		
013		11[55]			1806		X		Send Results to:
014		13[05]			1807		X		
017		13[15]			1808			X	Attn: Dan McCaffery
015		14[10]			1809		X		Environ.
016	↓	15[20]		↓	1810	↓	X		PO 16655
									Missoula, MT
									59808
									phone - (406) 523-1186
									Fax - 543-7987

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Relinguished by: *(Signature)*	Date/Time	Received by: *(Signature)*
Dan McCaffery	5/15/02 1950				
Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Relinguished by: *(Signature)*	Date/Time	Received by: *(Signature)*

Chain of Custody Seal:

Intact? (yes/no) N. Seal

Lab Personnel (receiving)

Signature: [illegible] 5/16/02 0700

Remarks

Split Samples:
[] Accepted [] Declined

Signature

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-001
Client Sample ID: 1811 L-88-10

Report Date: 06/13/02
Collection Date: 05/16/02 10:45
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
Bromoform	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
Chlorobenzene	1.1	ug/L		0.50		E624	05/23/02 02:58 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/23/02 02:58 / sbd
Chloroform	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
1,2-Dichlorobenzene	0.37	ug/L	J	0.50		E624	05/23/02 02:58 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
1,4-Dichlorobenzene	0.74	ug/L		0.50		E624	05/23/02 02:58 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
cis-1,2-Dichloroethene	7.8	ug/L		0.50		E624	05/23/02 02:58 / sbd
trans-1,2-Dichloroethene	0.27	ug/L	J	0.50		E624	05/23/02 02:58 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
Styrene	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
Tetrachloroethene	23	ug/L		2.5		E624	05/23/02 16:24 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-001
Client Sample ID: 1811

Report Date: 06/13/02
Collection Date: 05/16/02 10:45
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
Trichloroethene	8.1	ug/L		0.50		E624	05/23/02 02:58 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/23/02 02:58 / sbd
Xylenes, Total	ND	ug/L				E624	05/23/02 02:58 / sbd
Surr: 1,2-Dichloroethane-d4	97.2	%REC			74-127	E624	05/23/02 02:58 / sbd
Surr: p-Bromofluorobenzene	114	%REC			80-120	E624	05/23/02 02:58 / sbd
Surr: Toluene-d8	108	%REC			80-120	E624	05/23/02 02:58 / sbd

Report Definitions:
RL - Analyte reporting limit.
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ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-002
Client Sample ID: 1812 L-88-13

Report Date: 06/13/02
Collection Date: 05/16/02 11:17
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
Bromoform	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/23/02 03:31 / sbd
Chloroform	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
cis-1,2-Dichloroethene	0.36	ug/L	J	0.50		E624	05/23/02 03:31 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
Styrene	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
Tetrachloroethene	8.6	ug/L		0.50		E624	05/23/02 03:31 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd

Report Definitions:
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J - Estimated value. The analyte was present but less than the reporting limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-002
Client Sample ID: 1812

Report Date: 06/13/02
Collection Date: 05/16/02 11:17
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
Trichloroethene	1.3	ug/L		0.50		E624	05/23/02 03:31 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/23/02 03:31 / sbd
Xylenes, Total	ND	ug/L				E624	05/23/02 03:31 / sbd
Surr: 1,2-Dichloroethane-d4	102	%REC			74-127	E624	05/23/02 03:31 / sbd
Surr: p-Bromofluorobenzene	116	%REC			80-120	E624	05/23/02 03:31 / sbd
Surr: Toluene-d8	106	%REC			80-120	E624	05/23/02 03:31 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-003
Client Sample ID: 1813 L-98-13 upg.

Report Date: 06/13/02
Collection Date: 05/16/02 11:18
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
Bromoform	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/23/02 04:04 / sbd
Chloroform	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
cis-1,2-Dichloroethene	0.34	ug/L	J	0.50		E624	05/23/02 04:04 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
Styrene	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
Tetrachloroethene	8.4	ug/L		0.50		E624	05/23/02 04:04 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-003
Client Sample ID: 1813

Report Date: 06/13/02
Collection Date: 05/16/02 11:18
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
Trichloroethene	1.3	ug/L		0.50		E624	05/23/02 04:04 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/23/02 04:04 / sbd
Xylenes, Total	ND	ug/L				E624	05/23/02 04:04 / sbd
Surr: 1,2-Dichloroethane-d4	98.0	%REC			74-127	E624	05/23/02 04:04 / sbd
Surr: p-Bromofluorobenzene	118	%REC			80-120	E624	05/23/02 04:04 / sbd
Surr: Toluene-d8	108	%REC			80-120	E624	05/23/02 04:04 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-004
Client Sample ID: 1814

Report Date: 06/13/02
Collection Date: 05/16/02 11:10
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
Bromoform	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/23/02 04:39 / sbd
Chloroform	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
cis-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
Styrene	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
Tetrachloroethene	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-004
Client Sample ID: 1814

Report Date: 06/13/02
Collection Date: 05/16/02 11:10
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
Trichloroethene	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/23/02 04:39 / sbd
Xylenes, Total	ND	ug/L				E624	05/23/02 04:39 / sbd
Surr: 1,2-Dichloroethane-d4	100	%REC			74-127	E624	05/23/02 04:39 / sbd
Surr: p-Bromofluorobenzene	117	%REC			80-120	E624	05/23/02 04:39 / sbd
Surr: Toluene-d8	106	%REC			80-120	E624	05/23/02 04:39 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-005
Client Sample ID: 1815 L-27-S

Report Date: 06/13/02
Collection Date: 05/16/02 11:55
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
Bromoform	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/23/02 05:12 / sbd
Chloroform	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
cis-1,2-Dichloroethene	2.6	ug/L		0.50		E624	05/23/02 05:12 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
Styrene	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
Tetrachloroethene	1.2	ug/L		0.50		E624	05/23/02 05:12 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-005
Client Sample ID: 1815

Report Date: 06/13/02
Collection Date: 05/16/02 11:55
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
Trichloroethene	5.5	ug/L		0.50		E624	05/23/02 05:12 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/23/02 05:12 / sbd
Xylenes, Total	ND	ug/L				E624	05/23/02 05:12 / sbd
Surr: 1,2-Dichloroethane-d4	101	%REC			74-127	E624	05/23/02 05:12 / sbd
Surr: p-Bromofluorobenzene	118	%REC			80-120	E624	05/23/02 05:12 / sbd
Surr: Toluene-d8	108	%REC			80-120	E624	05/23/02 05:12 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-006
Client Sample ID: 1816 ~~T~~ tbWell # 1

Report Date: 06/13/02
Collection Date: 05/16/02 13:28
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
Bromoform	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/23/02 05:45 / sbd
Chloroform	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
cis-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
Styrene	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
Tetrachloroethene	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-006
Client Sample ID: 1816

Report Date: 06/13/02
Collection Date: 05/16/02 13:28
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
Trichloroethene	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/23/02 05:45 / sbd
Xylenes, Total	ND	ug/L				E624	05/23/02 05:45 / sbd
Surr: 1,2-Dichloroethane-d4	98.8	%REC			74-127	E624	05/23/02 05:45 / sbd
Surr: p-Bromofluorobenzene	116	%REC			80-120	E624	05/23/02 05:45 / sbd
Surr: Toluene-d8	104	%REC			80-120	E624	05/23/02 05:45 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-007
Client Sample ID: 1817 Trench Well # 2

Report Date: 06/13/02
Collection Date: 05/16/02 14:08
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
Bromoform	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/23/02 06:18 / sbd
Chloroform	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
cis-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
Styrene	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
Tetrachloroethene	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-007
Client Sample ID: 1817

Report Date: 06/13/02
Collection Date: 05/16/02 14:08
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
Trichloroethene	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/23/02 06:18 / sbd
Xylenes, Total	ND	ug/L				E624	05/23/02 06:18 / sbd
Surr: 1,2-Dichloroethane-d4	97.2	%REC			74-127	E624	05/23/02 06:18 / sbd
Surr: p-Bromofluorobenzene	119	%REC			80-120	E624	05/23/02 06:18 / sbd
Surr: Toluene-d8	107	%REC			80-120	E624	05/23/02 06:18 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-008
Client Sample ID: 1818 Test Well #4

Report Date: 06/13/02
Collection Date: 05/16/02 14:40
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
Bromoform	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/23/02 06:53 / sbd
Chloroform	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
cis-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
Styrene	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
Tetrachloroethene	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-008
Client Sample ID: 1818

Report Date: 06/13/02
Collection Date: 05/16/02 14:40
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
Trichloroethene	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/23/02 06:53 / sbd
Xylenes, Total	ND	ug/L				E624	05/23/02 06:53 / sbd
Surr: 1,2-Dichloroethane-d4	101	%REC			74-127	E624	05/23/02 06:53 / sbd
Surr: p-Bromofluorobenzene	118	%REC			80-120	E624	05/23/02 06:53 / sbd
Surr: Toluene-d8	108	%REC			80-120	E624	05/23/02 06:53 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-009
Client Sample ID: 1819 Init Well #3

Report Date: 06/13/02
Collection Date: 05/16/02 15:30
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
Bromoform	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/23/02 07:27 / sbd
Chloroform	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
cis-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
Styrene	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
Tetrachloroethene	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-009
Client Sample ID: 1819

Report Date: 06/13/02
Collection Date: 05/16/02 15:30
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
Trichloroethene	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/23/02 07:27 / sbd
Xylenes, Total	ND	ug/L				E624	05/23/02 07:27 / sbd
Surr: 1,2-Dichloroethane-d4	100	%REC			74-127	E624	05/23/02 07:27 / sbd
Surr: p-Bromofluorobenzene	118	%REC			80-120	E624	05/23/02 07:27 / sbd
Surr: Toluene-d8	108	%REC			80-120	E624	05/23/02 07:27 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-010
Client Sample ID: 1820 Front Well #5

Report Date: 06/13/02
Collection Date: 05/16/02 16:08
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
Bromoform	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/23/02 08:00 / sbd
Chloroform	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
cis-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
Styrene	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
Tetrachloroethene	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-010
Client Sample ID: 1820

Report Date: 06/13/02
Collection Date: 05/16/02 16:08
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
Trichloroethene	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/23/02 08:00 / sbd
Xylenes, Total	ND	ug/L				E624	05/23/02 08:00 / sbd
Surr: 1,2-Dichloroethane-d4	100	%REC			74-127	E624	05/23/02 08:00 / sbd
Surr: p-Bromofluorobenzene	120	%REC			80-120	E624	05/23/02 08:00 / sbd
Surr: Toluene-d8	107	%REC			80-120	E624	05/23/02 08:00 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-011
Client Sample ID: 1821

Report Date: 06/13/02
Collection Date: 05/16/02 17:30
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
Bromoform	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/23/02 08:34 / sbd
Chloroform	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
cis-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
Styrene	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
Tetrachloroethene	8.7	ug/L		0.50		E624	05/23/02 08:34 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-011
Client Sample ID: 1821

Report Date: 06/13/02
Collection Date: 05/16/02 17:30
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
Trichloroethene	0.25	ug/L	J	0.50		E624	05/23/02 08:34 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/23/02 08:34 / sbd
Xylenes, Total	ND	ug/L				E624	05/23/02 08:34 / sbd
Surr: 1,2-Dichloroethane-d4	106	%REC			74-127	E624	05/23/02 08:34 / sbd
Surr: p-Bromofluorobenzene	116	%REC			80-120	E624	05/23/02 08:34 / sbd
Surr: Toluene-d8	104	%REC			80-120	E624	05/23/02 08:34 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-012
Client Sample ID: 1822 Rail Road Well #6

Report Date: 06/13/02
Collection Date: 05/16/02 18:22
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
Bromoform	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/23/02 09:07 / sbd
Chloroform	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
cis-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
Styrene	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
Tetrachloroethene	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-012
Client Sample ID: 1822

Report Date: 06/13/02
Collection Date: 05/16/02 18:22
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
Trichloroethene	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/23/02 09:07 / sbd
Xylenes, Total	ND	ug/L				E624	05/23/02 09:07 / sbd
Surr: 1,2-Dichloroethane-d4	102	%REC			74-127	E624	05/23/02 09:07 / sbd
Surr: p-Bromofluorobenzene	119	%REC			80-120	E624	05/23/02 09:07 / sbd
Surr: Toluene-d8	109	%REC			80-120	E624	05/23/02 09:07 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-013
Client Sample ID: 1823 77-1

Report Date: 06/13/02
Collection Date: 05/17/02 09:00
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
Bromoform	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/23/02 09:40 / sbd
Chloroform	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
cis-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
Styrene	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
Tetrachloroethene	2.7	ug/L		0.50		E624	05/23/02 09:40 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-013
Client Sample ID: 1823

Report Date: 06/13/02
Collection Date: 05/17/02 09:00
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
Trichloroethene	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/23/02 09:40 / sbd
Xylenes, Total	ND	ug/L				E624	05/23/02 09:40 / sbd
Surr: 1,2-Dichloroethane-d4	104	%REC			74-127	E624	05/23/02 09:40 / sbd
Surr: p-Bromofluorobenzene	119	%REC			80-120	E624	05/23/02 09:40 / sbd
Surr: Toluene-d8	108	%REC			80-120	E624	05/23/02 09:40 / sbd

Report Definitions:
RL - Analyte reporting limit.
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MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-014
Client Sample ID: 1824 79-10

Report Date: 06/13/02
Collection Date: 05/17/02 09:35
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
Bromoform	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/23/02 14:37 / sbd
Chloroform	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
cis-1,2-Dichloroethene	1.8	ug/L		0.50		E624	05/23/02 14:37 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
Styrene	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
Tetrachloroethene	43	ug/L		5.0		E624	05/23/02 16:59 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd

Report Definitions:
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ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-014
Client Sample ID: 1824

Report Date: 06/13/02
Collection Date: 05/17/02 09:35
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
Trichloroethene	2.8	ug/L		0.50		E624	05/23/02 14:37 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/23/02 14:37 / sbd
Xylenes, Total	ND	ug/L				E624	05/23/02 14:37 / sbd
Surr: 1,2-Dichloroethane-d4	104	%REC			74-127	E624	05/23/02 14:37 / sbd
Surr: p-Bromofluorobenzene	116	%REC			80-120	E624	05/23/02 14:37 / sbd
Surr: Toluene-d8	110	%REC			80-120	E624	05/23/02 14:37 / sbd

Report Definitions:
RL - Analyte reporting limit.
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MCL - Maximum contaminant level.
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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-015
Client Sample ID: 1825 89-6

Report Date: 06/13/02
Collection Date: 05/17/02 10:00
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
Bromoform	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/23/02 15:16 / sbd
Chloroform	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
cis-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
Styrene	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
Tetrachloroethene	8.5	ug/L		0.50		E624	05/23/02 15:16 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd

Report Definitions:
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ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-015
Client Sample ID: 1825

Report Date: 06/13/02
Collection Date: 05/17/02 10:00
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
Trichloroethene	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/23/02 15:16 / sbd
Xylenes, Total	ND	ug/L				E624	05/23/02 15:16 / sbd
Surr: 1,2-Dichloroethane-d4	106	%REC			74-127	E624	05/23/02 15:16 / sbd
Surr: p-Bromofluorobenzene	114	%REC			80-120	E624	05/23/02 15:16 / sbd
Surr: Toluene-d8	106	%REC			80-120	E624	05/23/02 15:16 / sbd

Report Definitions:
RL - Analyte reporting limit.
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MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-016
Client Sample ID: 1826

Report Date: 06/13/02
Collection Date: 05/17/02 11:00
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
Bromobenzene	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
Bromoform	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
Bromomethane	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
Chloroethane	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	05/23/02 15:50 / sbd
Chloroform	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
Chloromethane	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
Dibromomethane	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
cis-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
Methylene chloride	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
Styrene	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
Tetrachloroethene	4.6	ug/L		0.50		E624	05/23/02 15:50 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Project No. 140101 BNSF-Livingston
Lab ID: B02050972-016
Client Sample ID: 1826

Report Date: 06/13/02
Collection Date: 05/17/02 11:00
Date Received: 05/17/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
Trichloroethene	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
o-Xylene	ND	ug/L		0.50		E624	05/23/02 15:50 / sbd
Xylenes, Total	ND	ug/L				E624	05/23/02 15:50 / sbd
Surr: 1,2-Dichloroethane-d4	103	%REC			74-127	E624	05/23/02 15:50 / sbd
Surr: p-Bromofluorobenzene	116	%REC			80-120	E624	05/23/02 15:50 / sbd
Surr: Toluene-d8	110	%REC			80-120	E624	05/23/02 15:50 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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800-735-4489 • 406-252-6325 • 406-252-6069 fax • eli@energylab.com

QA/QC Summary Report

Client: Envirocon Inc
Project: BNSF-Livingston

Report Date: 06/11/02
Work Order: B02050972

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **E624**									Batch: R9142
Sample ID: **LCSa052202**	Laboratory Control Spike								05/23/02 00:44
Benzene	4.48	ug/L	0.500	89.6	37	151			
Bromobenzene	4.52	ug/L	0.500	90.4	60	140			
Bromochloromethane	4.32	ug/L	0.500	86.4	60	140			
Bromodichloromethane	3.96	ug/L	0.500	79.3	35	155			
Bromoform	3.07	ug/L	0.500	61.4	45	169			
Bromomethane	5.12	ug/L	0.500	102	10	242			
Carbon tetrachloride	4.12	ug/L	0.500	82.4	70	140			
Chlorobenzene	4.4	ug/L	0.500	88	37	160			
Chlorodibromomethane	3.61	ug/L	0.500	72.2	53	149			
Chloroethane	5.12	ug/L	0.500	102	14	230			
2-Chloroethyl vinyl ether	3.68	ug/L	1.00	73.6	10	305			
Chloroform	4.2	ug/L	0.500	84	51	138			
Chloromethane	5.28	ug/L	0.500	106	10	273			
2-Chlorotoluene	4.92	ug/L	0.500	98.4	60	140			
4-Chlorotoluene	4.76	ug/L	0.500	95.2	60	140			
1,2-Dibromoethane	3.78	ug/L	0.500	75.7	60	140			
Dibromomethane	4.12	ug/L	0.500	82.4	60	140			
1,2-Dichlorobenzene	4.6	ug/L	0.500	92	18	190			
1,3-Dichlorobenzene	4.56	ug/L	0.500	91.2	59	156			
1,4-Dichlorobenzene	4.52	ug/L	0.500	90.4	18	190			
Dichlorodifluoromethane	5.04	ug/L	0.500	101	60	140			
1,1-Dichloroethane	4.72	ug/L	0.500	94.4	59	155			
1,2-Dichloroethane	4.2	ug/L	0.500	84	49	155			
1,1-Dichloroethene	4.76	ug/L	0.500	95.2	10	134			
cis-1,2-Dichloroethene	4.36	ug/L	0.500	87.2	60	140			
trans-1,2-Dichloroethene	4.72	ug/L	0.500	94.4	54	156			
1,2-Dichloropropane	4.12	ug/L	0.500	82.4	10	210			
1,3-Dichloropropane	3.89	ug/L	0.500	77.8	60	140			
2,2-Dichloropropane	4.08	ug/L	0.500	81.6	60	140			
1,1-Dichloropropene	4.24	ug/L	0.500	84.8	60	140			
cis-1,3-Dichloropropene	3.71	ug/L	0.500	74.2	10	227			
trans-1,3-Dichloropropene	3.7	ug/L	0.500	74	17	183			
Ethylbenzene	4.2	ug/L	0.500	84	37	162			
Methylene chloride	4.44	ug/L	0.500	88.8	10	221			
Styrene	4.12	ug/L	0.500	82.4	60	140			
Tetrachloroethene	4.44	ug/L	0.500	88.8	64	148			
1,1,1,2-Tetrachloroethane	3.97	ug/L	0.500	79.4	60	140			
1,1,2,2-Tetrachloroethane	4.12	ug/L	0.500	82.4	46	157			
Toluene	4.52	ug/L	0.500	90.4	47	150			
Trichloroethene	4.36	ug/L	0.500	87.2	71	157			
1,1,1-Trichloroethane	3.42	ug/L	0.500	68.5	52	162			
1,1,2-Trichloroethane	3.84	ug/L	0.500	76.7	52	150			
Trichlorofluoromethane	4.56	ug/L	0.500	91.2	17	181			

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

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QA/QC Summary Report

Client: Envirocon Inc
Project: BNSF-Livingston

Report Date: 06/11/02
Work Order: B02050972

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R9142
Sample ID: LCSa052202	Laboratory Control Spike								05/23/02 00:44
1,2,3-Trichloropropane	3.94	ug/L	0.500	78.8	60	140			
Vinyl chloride	6	ug/L	0.500	120	10	251			
m+p-Xylenes	8.8	ug/L	0.500	88	60	140			
o-Xylene	4.32	ug/L	0.500	86.4	60	140			
Xylenes, Total	13.1	ug/L		87.5	60	140			
Surr: 1,2-Dichloroethane-d4			0.500	99.2	74	127			
Surr: p-Bromofluorobenzene			0.500	115	80	120			
Surr: Toluene-d8			0.500	112	80	120			
Sample ID: MBLKa052202	Method Blank								05/23/02 01:18
Benzene	ND	ug/L	0.500						
Bromobenzene	ND	ug/L	0.500						
Bromochloromethane	ND	ug/L	0.500						
Bromodichloromethane	ND	ug/L	0.500						
Bromoform	ND	ug/L	0.500						
Bromomethane	ND	ug/L	0.500						
Carbon tetrachloride	ND	ug/L	0.500						
Chlorobenzene	ND	ug/L	0.500						
Chlorodibromomethane	ND	ug/L	0.500						
Chloroethane	ND	ug/L	0.500						
2-Chloroethyl vinyl ether	ND	ug/L	1.00						
Chloroform	ND	ug/L	0.500						
Chloromethane	ND	ug/L	0.500						
2-Chlorotoluene	ND	ug/L	0.500						
4-Chlorotoluene	ND	ug/L	0.500						
1,2-Dibromoethane	ND	ug/L	0.500						
Dibromomethane	ND	ug/L	0.500						
1,2-Dichlorobenzene	ND	ug/L	0.500						
1,3-Dichlorobenzene	ND	ug/L	0.500						
1,4-Dichlorobenzene	ND	ug/L	0.500						
Dichlorodifluoromethane	ND	ug/L	0.500						
1,1-Dichloroethane	ND	ug/L	0.500						
1,2-Dichloroethane	ND	ug/L	0.500						
1,1-Dichloroethene	ND	ug/L	0.500						
cis-1,2-Dichloroethene	ND	ug/L	0.500						
trans-1,2-Dichloroethene	ND	ug/L	0.500						
1,2-Dichloropropane	ND	ug/L	0.500						
1,3-Dichloropropane	ND	ug/L	0.500						
2,2-Dichloropropane	ND	ug/L	0.500						
1,1-Dichloropropene	ND	ug/L	0.500						
cis-1,3-Dichloropropene	ND	ug/L	0.500						
trans-1,3-Dichloropropene	ND	ug/L	0.500						
Ethylbenzene	ND	ug/L	0.500						

Qualifiers: ND - Not Detected at the Reporting Limit
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits

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QA/QC Summary Report

Client: Envirocon Inc
Project: BNSF-Livingston

Report Date: 06/11/02
Work Order: B02050972

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R9142
Sample ID: MBLKa052202	Method Blank								05/23/02 01:18
Methylene chloride	ND	ug/L	0.500						
Styrene	ND	ug/L	0.500						
Tetrachloroethene	ND	ug/L	0.500						
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500						
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500						
Toluene	ND	ug/L	0.500						
Trichloroethene	ND	ug/L	0.500						
1,1,1-Trichloroethane	ND	ug/L	0.500						
1,1,2-Trichloroethane	ND	ug/L	0.500						
Trichlorofluoromethane	ND	ug/L	0.500						
1,2,3-Trichloropropane	ND	ug/L	0.500						
Vinyl chloride	ND	ug/L	0.500						
m+p-Xylenes	ND	ug/L	0.500						
o-Xylene	ND	ug/L	0.500						
Xylenes, Total	ND	ug/L							
Surr: 1,2-Dichloroethane-d4			0.500	100	74	127			
Surr: p-Bromofluorobenzene			0.500	114	80	120			
Surr: Toluene-d8			0.500	107	80	120			
Sample ID: MBLK052402	Method Blank								05/23/02 14:03
Benzene	ND	ug/L	0.500						
Bromobenzene	ND	ug/L	0.500						
Bromochloromethane	ND	ug/L	0.500						
Bromodichloromethane	ND	ug/L	0.500						
Bromoform	ND	ug/L	0.500						
Bromomethane	ND	ug/L	0.500						
Carbon tetrachloride	ND	ug/L	0.500						
Chlorobenzene	ND	ug/L	0.500						
Chlorodibromomethane	ND	ug/L	0.500						
Chloroethane	ND	ug/L	0.500						
2-Chloroethyl vinyl ether	ND	ug/L	1.00						
Chloroform	ND	ug/L	0.500						
Chloromethane	ND	ug/L	0.500						
2-Chlorotoluene	ND	ug/L	0.500						
4-Chlorotoluene	ND	ug/L	0.500						
1,2-Dibromoethane	ND	ug/L	0.500						
Dibromomethane	ND	ug/L	0.500						
1,2-Dichlorobenzene	ND	ug/L	0.500						
1,3-Dichlorobenzene	ND	ug/L	0.500						
1,4-Dichlorobenzene	ND	ug/L	0.500						
Dichlorodifluoromethane	ND	ug/L	0.500						
1,1-Dichloroethane	ND	ug/L	0.500						
1,2-Dichloroethane	ND	ug/L	0.500						

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

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QA/QC Summary Report

Client: Envirocon Inc
Project: BNSF-Livingston

Report Date: 06/11/02
Work Order: B02050972

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R9142
Sample ID: MBLK052402	Method Blank								05/23/02 14:03
1,1-Dichloroethene	ND	ug/L	0.500						
cis-1,2-Dichloroethene	ND	ug/L	0.500						
trans-1,2-Dichloroethene	ND	ug/L	0.500						
1,2-Dichloropropane	ND	ug/L	0.500						
1,3-Dichloropropane	ND	ug/L	0.500						
2,2-Dichloropropane	ND	ug/L	0.500						
1,1-Dichloropropene	ND	ug/L	0.500						
cis-1,3-Dichloropropene	ND	ug/L	0.500						
trans-1,3-Dichloropropene	ND	ug/L	0.500						
Ethylbenzene	ND	ug/L	0.500						
Methylene chloride	ND	ug/L	0.500						
Styrene	ND	ug/L	0.500						
Tetrachloroethene	ND	ug/L	0.500						
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500						
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500						
Toluene	ND	ug/L	0.500						
Trichloroethene	ND	ug/L	0.500						
1,1,1-Trichloroethane	ND	ug/L	0.500						
1,1,2-Trichloroethane	ND	ug/L	0.500						
Trichlorofluoromethane	ND	ug/L	0.500						
1,2,3-Trichloropropane	ND	ug/L	0.500						
Vinyl chloride	ND	ug/L	0.500						
m+p-Xylenes	ND	ug/L	0.500						
o-Xylene	ND	ug/L	0.500						
Xylenes, Total	ND	ug/L							
Surr: 1,2-Dichloroethane-d4			0.500	103	74	127			
Surr: p-Bromofluorobenzene			0.500	114	80	120			
Surr: Toluene-d8			0.500	109	80	120			
Sample ID: B02050972-005AMS	Sample Matrix Spike								05/23/02 22:44
Benzene	5.36	ug/L	0.500	107	37	151			
Bromobenzene	5.08	ug/L	0.500	102	60	140			
Bromochloromethane	5.08	ug/L	0.500	102	60	140			
Bromodichloromethane	5.12	ug/L	0.500	102	35	155			
Bromoform	4.72	ug/L	0.500	94.4	45	169			
Bromomethane	4.24	ug/L	0.500	84.8	10	242			
Carbon tetrachloride	4.96	ug/L	0.500	99.2	70	140			
Chlorobenzene	5.24	ug/L	0.500	105	37	160			
Chlorodibromomethane	4.88	ug/L	0.500	97.6	53	149			
Chloroethane	4.36	ug/L	0.500	87.2	14	230			
2-Chloroethyl vinyl ether	ND	ug/L	1.00	0	10	305			S
Chloroform	5	ug/L	0.500	100	51	138			
Chloromethane	4.96	ug/L	0.500	99.2	10	273			

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

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QA/QC Summary Report

Client: Envirocon Inc
Project: BNSF-Livingston

Report Date: 06/11/02
Work Order: B02050972

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **E624**									Batch: R9142
Sample ID: B02050972-005AMS	Sample Matrix Spike								05/23/02 22:44
2-Chlorotoluene	5.44	ug/L	0.500	109	60	140			
4-Chlorotoluene	5.04	ug/L	0.500	101	60	140			
1,2-Dibromoethane	4.88	ug/L	0.500	97.6	60	140			
Dibromomethane	5.24	ug/L	0.500	105	60	140			
1,2-Dichlorobenzene	5.24	ug/L	0.500	105	18	190			
1,3-Dichlorobenzene	4.8	ug/L	0.500	96	59	156			
1,4-Dichlorobenzene	5.12	ug/L	0.500	102	18	190			
Dichlorodifluoromethane	5.36	ug/L	0.500	107	60	140			
1,1-Dichloroethane	5.88	ug/L	0.500	118	59	155			
1,2-Dichloroethane	4.92	ug/L	0.500	98.4	49	155			
1,1-Dichloroethene	5.88	ug/L	0.500	118	10	134			
cis-1,2-Dichloroethene	7.76	ug/L	0.500	104	60	140			
trans-1,2-Dichloroethene	6.08	ug/L	0.500	122	54	156			
1,2-Dichloropropane	5	ug/L	0.500	100	10	210			
1,3-Dichloropropane	5	ug/L	0.500	100	60	140			
2,2-Dichloropropane	4.72	ug/L	0.500	94.4	60	140			
1,1-Dichloropropene	4.88	ug/L	0.500	97.6	60	140			
cis-1,3-Dichloropropene	4.8	ug/L	0.500	96	10	227			
trans-1,3-Dichloropropene	5.08	ug/L	0.500	102	17	183			
Ethylbenzene	5.08	ug/L	0.500	102	37	162			
Methylene chloride	5.44	ug/L	0.500	109	10	221			
Styrene	4.96	ug/L	0.500	99.2	60	140			
Tetrachloroethene	6.28	ug/L	0.500	101	64	148			
1,1,1,2-Tetrachloroethane	4.84	ug/L	0.500	96.8	60	140			
1,1,2,2-Tetrachloroethane	4.36	ug/L	0.500	87.2	46	157			
Toluene	5.36	ug/L	0.500	107	47	150			
Trichloroethene	10.8	ug/L	0.500	106	71	157			
1,1,1-Trichloroethane	4.24	ug/L	0.500	84.8	52	162			
1,1,2-Trichloroethane	5.2	ug/L	0.500	104	52	150			
Trichlorofluoromethane	4.48	ug/L	0.500	89.6	17	181			
1,2,3-Trichloropropane	4.84	ug/L	0.500	96.8	60	140			
Vinyl chloride	6.2	ug/L	0.500	124	10	251			
m+p-Xylenes	10.4	ug/L	0.500	104	60	140			
o-Xylene	5.52	ug/L	0.500	110	60	140			
Xylenes, Total	16	ug/L		106	60	140			
Surr: 1,2-Dichloroethane-d4			0.500	107	74	127			
Surr: p-Bromofluorobenzene			0.500	113	80	120			
Surr: Toluene-d8			0.500	111	80	120			

Qualifiers: ND - Not Detected at the Reporting Limit
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits

Energy Laboratories Inc

Sample Receipt Checklist

Client Name: **ENVRCN-INC** Date and Time Received: **5/17/2002**

Work Order Number: **B02050972** Received by: klm

Checklist completed by: _____ 05/17/02 Reviewed by: _____

Signature Date Initials Date

Carrier name Bus

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	4 °C
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by: _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments:

_____

_____

Corrective Action: _____

_____

_____

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ANALYTICAL SUMMARY REPORT

June 13, 2002

Envirocon Inc
PO Box 16655
Missoula, MT 59808

Workorder No.: B02050972
Project Name: Project No. 140101 BNSF-Livingston

Energy Laboratories Inc received the following 16 samples from Envirocon Inc on 5/17/2002 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B02050972-001	1811	05/16/02 10:45	05/17/02	Aqueous	624-Purgeable Organics
B02050972-002	1812	05/16/02 11:17	05/17/02	Aqueous	Same As Above
B02050972-003	1813	05/16/02 11:18	05/17/02	Aqueous	Same As Above
B02050972-004	1814	05/16/02 11:10	05/17/02	Aqueous	Same As Above
B02050972-005	1815	05/16/02 11:55	05/17/02	Aqueous	Same As Above
B02050972-006	1816	05/16/02 13:28	05/17/02	Aqueous	Same As Above
B02050972-007	1817	05/16/02 14:08	05/17/02	Aqueous	Same As Above
B02050972-008	1818	05/16/02 14:40	05/17/02	Aqueous	Same As Above
B02050972-009	1819	05/16/02 15:30	05/17/02	Aqueous	Same As Above
B02050972-010	1820	05/16/02 16:08	05/17/02	Aqueous	Same As Above
B02050972-011	1821	05/16/02 17:30	05/17/02	Aqueous	Same As Above
B02050972-012	1822	05/16/02 18:22	05/17/02	Aqueous	Same As Above
B02050972-013	1823	05/17/02 9:00	05/17/02	Aqueous	Same As Above
B02050972-014	1824	05/17/02 9:35	05/17/02	Aqueous	Same As Above
B02050972-015	1825	05/17/02 10:00	05/17/02	Aqueous	Same As Above
B02050972-016	1826	05/17/02 11:00	05/17/02	Aqueous	Same As Above

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except if noted in report comments or the Case Narrative.

If you have any questions regarding these tests results, please call

Report Approved By: _____

ENVIROCON, INC.

CHAIN OF CUSTODY RECORD

Bus 4°C

PROJ. NO.	PROJECT NAME
40101	BNSF – Livingston

SAMPLERS: (Signature) Dan McCaffery

SAMPLED VOLUME	DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	VOCs Aq (624)						REMARKS
	5/16/02	1045		X	1811	2(A+B)	X			Bus	050	970	1 Note: Analyses only
		1117			1812								2 either A or B.
		1118			1813								3
		1110			1814								4 Send results to:
		1155			1815								5
		1329			1816								6 attn: Dan McCaffery
		1408			1817								7 Envirocon
		1442			1818								8 PO 16655
		1530			1819								9 Missoula, MT
		1608			1820								10 59808
		1733			1821								11
	↓	1822		↓	1822		↓						12 phone (406) 523-1186
													Fax 543-7987

Relinquished (Signature)	Date/Time	Received by: (Signature)	Relinguished by: (Signature)	Date/Time	Received by: (Signature)
Dan McCaffery	5/17/02 1300				
Relinquished (Signature)	Date/Time	Received by: (Signature)	Relinguished by: (Signature)	Date/Time	Received by: (Signature)
				05/17/02 0150	Michael Woodward

Chain of Custody Seal:

Intact? (yes/no) _____

Lab Personnel (receiving)

Signature: _____

Remarks

Split Samples:
[] Accepted [] Declined _____ Signature

ENVIROCON, INC.

CHAIN OF CUSTODY RECORD

Bus

4°C

PROJ. NO.	PROJECT NAME
1301	BNSF - Livingston

SAMPLERS: (Signature) Dan McCaffery

SAMPLED VOLUME	DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	VOCs Benzene					REMARKS
	5/17/02	9[illegible]		X	1823	2 (A+B)	X		BD24650	72	13	Note: Analyze only either "A" or "B".
		9[illegible]			1824						14	
		10[illegible]			1825						15	
		11[illegible]			1826						16	Send results to: Atlas: Dan McCaffery Envirocon PO 16655 Missoula, MT 59808 Phone (406) 523-1185 Fax 543-7477

Relinquished (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Dan McCaffery	5/17/02 1200				
Relinquished (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
				05/17/02 1500	[illegible]

Chain of Custody Seal: _____

Intact? (yes/no) _____

Lab Personnel (receiving)

Signature: _____

Remarks

Split Samples:
[] Accepted [] Declined _____ Signature

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF/Livingston
Lab ID: B02051176-003
Client Sample ID: 1827 Rainbow Motel

Report Date: 06/17/02
Collection Date: 05/22/02 09:00
Date Received: 05/23/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
Bromobenzene	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
Bromochloromethane	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
Bromodichloromethane	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
Bromoform	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
Bromomethane	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
Chloroethane	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	06/02/02 01:17 / sbd
Chloroform	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
Chloromethane	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
1,2-Dibromoethane	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
Dibromomethane	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
cis-1,2-Dichloroethene	0.41	ug/L	J	0.50		E624	06/02/02 01:17 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
Ethylbenzene	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
Methylene chloride	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
Styrene	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
Tetrachloroethene	4.4	ug/L		0.50		E624	06/02/02 01:17 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF/Livingston
Lab ID: B02051176-003
Client Sample ID: 1827

Report Date: 06/17/02
Collection Date: 05/22/02 09:00
Date Received: 05/23/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Toluene	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
Trichloroethene	0.82	ug/L		0.50		E624	06/02/02 01:17 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
m+p-Xylenes	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
o-Xylene	ND	ug/L		0.50		E624	06/02/02 01:17 / sbd
Xylenes, Total	ND	ug/L				E624	06/02/02 01:17 / sbd
Surr: 1,2-Dichloroethane-d4	108	%REC			74-127	E624	06/02/02 01:17 / sbd
Surr: p-Bromofluorobenzene	119	%REC			80-120	E624	06/02/02 01:17 / sbd
Surr: Toluene-d8	114	%REC			80-120	E624	06/02/02 01:17 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF/Livingston

Report Date: 06/17/02
Work Order: B02051176

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **E624**									Batch: R9443
Sample ID: **LCS060102**	Laboratory Control Spike								06/01/02 16:09
Benzene	4.4	ug/L	0.500	88	37	151			
Bromobenzene	4.44	ug/L	0.500	88.8	60	140			
Bromochloromethane	4.28	ug/L	0.500	85.6	60	140			
Bromodichloromethane	4.2	ug/L	0.500	84	35	155			
Bromoform	4	ug/L	0.500	80	45	169			
Bromomethane	4.76	ug/L	0.500	95.2	10	242			
Carbon tetrachloride	4.64	ug/L	0.500	92.8	70	140			
Chlorobenzene	4.64	ug/L	0.500	92.8	37	160			
Chlorodibromomethane	4.12	ug/L	0.500	82.4	53	149			
Chloroethane	4.72	ug/L	0.500	94.4	14	230			
2-Chloroethyl vinyl ether	4.04	ug/L	1.00	80.8	10	305			
Chloroform	4.24	ug/L	0.500	84.8	51	138			
Chloromethane	4.44	ug/L	0.500	88.8	10	273			
2-Chlorotoluene	4.72	ug/L	0.500	94.4	60	140			
4-Chlorotoluene	4.64	ug/L	0.500	92.8	60	140			
1,2-Dibromoethane	4.24	ug/L	0.500	84.8	60	140			
Dibromomethane	4.4	ug/L	0.500	88	60	140			
1,2-Dichlorobenzene	4.56	ug/L	0.500	91.2	18	190			
1,3-Dichlorobenzene	4.6	ug/L	0.500	92	59	156			
1,4-Dichlorobenzene	4.6	ug/L	0.500	92	18	190			
Dichlorodifluoromethane	5.12	ug/L	0.500	102	60	140			
1,1-Dichloroethane	4.36	ug/L	0.500	87.2	59	155			
1,2-Dichloroethane	4.32	ug/L	0.500	86.4	49	155			
1,1-Dichloroethene	4.36	ug/L	0.500	87.2	10	134			
cis-1,2-Dichloroethene	4.24	ug/L	0.500	84.8	60	140			
trans-1,2-Dichloroethene	4.36	ug/L	0.500	87.2	54	156			
1,2-Dichloropropane	4	ug/L	0.500	80	10	210			
1,3-Dichloropropane	4.24	ug/L	0.500	84.8	60	140			
2,2-Dichloropropane	4.68	ug/L	0.500	93.6	60	140			
1,1-Dichloropropene	4.2	ug/L	0.500	84	60	140			
cis-1,3-Dichloropropene	4.32	ug/L	0.500	86.4	10	227			
trans-1,3-Dichloropropene	4.6	ug/L	0.500	92	17	183			
Ethylbenzene	4.4	ug/L	0.500	88	37	162			
Methylene chloride	4.08	ug/L	0.500	81.6	10	221			
Styrene	4.36	ug/L	0.500	87.2	60	140			
Tetrachloroethene	4.36	ug/L	0.500	87.2	64	148			
1,1,1,2-Tetrachloroethane	4	ug/L	0.500	79.9	60	140			
1,1,2,2-Tetrachloroethane	3.94	ug/L	0.500	78.9	46	157			
Toluene	4.68	ug/L	0.500	93.6	47	150			
Trichloroethene	4.24	ug/L	0.500	84.8	71	157			
1,1,1-Trichloroethane	4.48	ug/L	0.500	89.6	52	162			
1,1,2-Trichloroethane	4.2	ug/L	0.500	84	52	150			
Trichlorofluoromethane	4.84	ug/L	0.500	96.8	17	181			

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

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QA/QC Summary Report

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF/Livingston

Report Date: 06/17/02
Work Order: B02051176

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R9443
Sample ID: LCS060102	Laboratory Control Spike								06/01/02 16:09
1,2,3-Trichloropropane	3.94	ug/L	0.500	78.9	60	140			
Vinyl chloride	5.52	ug/L	0.500	110	10	251			
m+p-Xylenes	8.48	ug/L	0.500	84.8	60	140			
o-Xylene	4.2	ug/L	0.500	84	60	140			
Xylenes, Total	12.7	ug/L		84.5	60	140			
Surr: 1,2-Dichloroethane-d4			0.500	104	74	127			
Surr: p-Bromofluorobenzene			0.500	115	80	120			
Surr: Toluene-d8			0.500	116	80	120			
Sample ID: MBLK-0601A	Method Blank								06/01/02 16:43
Benzene	ND	ug/L	0.500						
Bromobenzene	ND	ug/L	0.500						
Bromochloromethane	ND	ug/L	0.500						
Bromodichloromethane	ND	ug/L	0.500						
Bromoform	ND	ug/L	0.500						
Bromomethane	ND	ug/L	0.500						
Carbon tetrachloride	ND	ug/L	0.500						
Chlorobenzene	ND	ug/L	0.500						
Chlorodibromomethane	ND	ug/L	0.500						
Chloroethane	ND	ug/L	0.500						
Chloroform	ND	ug/L	0.500						
Chloromethane	ND	ug/L	0.500						
2-Chlorotoluene	ND	ug/L	0.500						
4-Chlorotoluene	ND	ug/L	0.500						
1,2-Dibromoethane	ND	ug/L	0.500						
Dibromomethane	ND	ug/L	0.500						
1,2-Dichlorobenzene	ND	ug/L	0.500						
1,3-Dichlorobenzene	ND	ug/L	0.500						
1,4-Dichlorobenzene	ND	ug/L	0.500						
Dichlorodifluoromethane	ND	ug/L	0.500						
1,1-Dichloroethane	ND	ug/L	0.500						
1,2-Dichloroethane	ND	ug/L	0.500						
1,1-Dichloroethene	ND	ug/L	0.500						
cis-1,2-Dichloroethene	ND	ug/L	0.500						
trans-1,2-Dichloroethene	ND	ug/L	0.500						
1,2-Dichloropropane	ND	ug/L	0.500						
1,3-Dichloropropane	ND	ug/L	0.500						
2,2-Dichloropropane	ND	ug/L	0.500						
1,1-Dichloropropene	ND	ug/L	0.500						
cis-1,3-Dichloropropene	ND	ug/L	0.500						
trans-1,3-Dichloropropene	ND	ug/L	0.500						
Ethylbenzene	ND	ug/L	0.500						
Methylene chloride	ND	ug/L	0.500						

Qualifiers: ND - Not Detected at the Reporting Limit
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits

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QA/QC Summary Report

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF/Livingston

Report Date: 06/17/02
Work Order: B02051176

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R9443
Sample ID: MBLK-0601A	Method Blank								06/01/02 16:43
Styrene	ND	ug/L	0.500						
Tetrachloroethene	ND	ug/L	0.500						
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500						
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500						
Toluene	ND	ug/L	0.500						
Trichloroethene	ND	ug/L	0.500						
1,1,1-Trichloroethane	ND	ug/L	0.500						
1,1,2-Trichloroethane	ND	ug/L	0.500						
Trichlorofluoromethane	ND	ug/L	0.500						
1,2,3-Trichloropropane	ND	ug/L	0.500						
Vinyl chloride	ND	ug/L	0.500						
m+p-Xylenes	ND	ug/L	0.500						
o-Xylene	ND	ug/L	0.500						
Xylenes, Total	ND	ug/L							
Surr: 1,2-Dichloroethane-d4			0.500	100	74	127			
Surr: p-Bromofluorobenzene			0.500	116	80	120			
Surr: Toluene-d8			0.500	112	80	120			

Qualifiers: ND - Not Detected at the Reporting Limit
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF/Livingston
Lab ID: B02051176-001
Client Sample ID: 1828 'B' Street dupl.

Report Date: 06/17/02
Collection Date: 05/22/02 09:30
Date Received: 05/23/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50	5	E524.2	06/02/02 00:08 / sbd
Bromobenzene	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
Bromochloromethane	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
Bromodichloromethane	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
Bromoform	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
Bromomethane	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
n-Butylbenzene	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
sec-Butylbenzene	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
tert-Butylbenzene	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
Carbon tetrachloride	ND	ug/L		0.50	5	E524.2	06/02/02 00:08 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
Chlorobenzene	ND	ug/L		0.50	100	E524.2	06/02/02 00:08 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
Chloroethane	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
Chloroform	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
Chloromethane	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		E524.2	06/02/02 00:08 / sbd
Dibromomethane	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50	600	E524.2	06/02/02 00:08 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50	75	E524.2	06/02/02 00:08 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
1,2-Dibromoethane	ND	ug/L		0.50	5	E524.2	06/02/02 00:08 / sbd
1,1-Dichloroethene	ND	ug/L		0.50	7	E524.2	06/02/02 00:08 / sbd
cis-1,2-Dichloroethene	ND	ug/L		0.50	70	E524.2	06/02/02 00:08 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50	100	E524.2	06/02/02 00:08 / sbd
1,2-Dichloropropane	ND	ug/L		0.50	5	E524.2	06/02/02 00:08 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
Ethylbenzene	ND	ug/L		0.50	700	E524.2	06/02/02 00:08 / sbd
Hexachlorobutadiene	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
Isopropylbenzene	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF/Livingston
Lab ID: B02051176-001
Client Sample ID: 1828

Report Date: 06/17/02
Collection Date: 05/22/02 09:30
Date Received: 05/23/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
p-Isopropyltoluene	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
Methyl tert-butyl ether (MTBE)	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
Methylene chloride	ND	ug/L		0.50	5	E524.2	06/02/02 00:08 / sbd
Naphthalene	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
n-Propylbenzene	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
Styrene	ND	ug/L		0.50	100	E524.2	06/02/02 00:08 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
Tetrachloroethene	ND	ug/L		0.50	5	E524.2	06/02/02 00:08 / sbd
Toluene	ND	ug/L		0.50	1000	E524.2	06/02/02 00:08 / sbd
1,2,3-Trichlorobenzene	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
1,2,4-Trichlorobenzene	ND	ug/L		0.50	70	E524.2	06/02/02 00:08 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50	200	E524.2	06/02/02 00:08 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50	5	E524.2	06/02/02 00:08 / sbd
Trichloroethene	ND	ug/L		0.50	5	E524.2	06/02/02 00:08 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
Trihalomethanes, Total	ND	ug/L			80	E524.2	06/02/02 00:08 / sbd
1,2,4-Trimethylbenzene	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
1,3,5-Trimethylbenzene	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
Vinyl chloride	ND	ug/L		0.50	2	E524.2	06/02/02 00:08 / sbd
m+p-Xylenes	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
o-Xylene	ND	ug/L		0.50		E524.2	06/02/02 00:08 / sbd
Xylenes, Total	ND	ug/L			10000	E524.2	06/02/02 00:08 / sbd
Surr: p-Bromofluorobenzene	120	%REC			80-120	E524.2	06/02/02 00:08 / sbd
Surr: 1,2-Dichloroethane-d4	108	%REC			74-127	E524.2	06/02/02 00:08 / sbd
Surr: Toluene-d8	119	%REC			80-120	E524.2	06/02/02 00:08 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF/Livingston
Lab ID: B02051176-002
Client Sample ID: 1808 'B' Street

Report Date: 06/17/02
Collection Date: 05/22/02 09:30
Date Received: 05/23/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50	5	E524.2	06/02/02 00:43 / sbd
Bromobenzene	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
Bromochloromethane	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
Bromodichloromethane	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
Bromoform	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
Bromomethane	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
n-Butylbenzene	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
sec-Butylbenzene	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
tert-Butylbenzene	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
Carbon tetrachloride	ND	ug/L		0.50	5	E524.2	06/02/02 00:43 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
Chlorobenzene	ND	ug/L		0.50	100	E524.2	06/02/02 00:43 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
Chloroethane	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
Chloroform	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
Chloromethane	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		E524.2	06/02/02 00:43 / sbd
Dibromomethane	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50	600	E524.2	06/02/02 00:43 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50	75	E524.2	06/02/02 00:43 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
1,2-Dibromoethane	ND	ug/L		0.50	5	E524.2	06/02/02 00:43 / sbd
1,1-Dichloroethene	ND	ug/L		0.50	7	E524.2	06/02/02 00:43 / sbd
cis-1,2-Dichloroethene	ND	ug/L		0.50	70	E524.2	06/02/02 00:43 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50	100	E524.2	06/02/02 00:43 / sbd
1,2-Dichloropropane	ND	ug/L		0.50	5	E524.2	06/02/02 00:43 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
Ethylbenzene	ND	ug/L		0.50	700	E524.2	06/02/02 00:43 / sbd
Hexachlorobutadiene	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
Isopropylbenzene	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF/Livingston
Lab ID: B02051176-002
Client Sample ID: 1808

Report Date: 06/17/02
Collection Date: 05/22/02 09:30
Date Received: 05/23/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
p-Isopropyltoluene	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
Methyl tert-butyl ether (MTBE)	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
Methylene chloride	ND	ug/L		0.50	5	E524.2	06/02/02 00:43 / sbd
Naphthalene	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
n-Propylbenzene	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
Styrene	ND	ug/L		0.50	100	E524.2	06/02/02 00:43 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
Tetrachloroethene	ND	ug/L		0.50	5	E524.2	06/02/02 00:43 / sbd
Toluene	ND	ug/L		0.50	1000	E524.2	06/02/02 00:43 / sbd
1,2,3-Trichlorobenzene	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
1,2,4-Trichlorobenzene	ND	ug/L		0.50	70	E524.2	06/02/02 00:43 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50	200	E524.2	06/02/02 00:43 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50	5	E524.2	06/02/02 00:43 / sbd
Trichloroethene	ND	ug/L		0.50	5	E524.2	06/02/02 00:43 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
Trihalomethanes, Total	ND	ug/L			80	E524.2	06/02/02 00:43 / sbd
1,2,4-Trimethylbenzene	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
1,3,5-Trimethylbenzene	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
Vinyl chloride	ND	ug/L		0.50	2	E524.2	06/02/02 00:43 / sbd
m+p-Xylenes	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
o-Xylene	ND	ug/L		0.50		E524.2	06/02/02 00:43 / sbd
Xylenes, Total	ND	ug/L			10000	E524.2	06/02/02 00:43 / sbd
Surr: p-Bromofluorobenzene	118	%REC			80-120	E524.2	06/02/02 00:43 / sbd
Surr: 1,2-Dichloroethane-d4	109	%REC			74-127	E524.2	06/02/02 00:43 / sbd
Surr: Toluene-d8	112	%REC			80-120	E524.2	06/02/02 00:43 / sbd

Report Definitions:
RL - Analyte reporting limit.
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MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF/Livingston
Lab ID: B02051176-004
Client Sample ID: Trip Blank

Report Date: 06/17/02
Collection Date: 05/22/02 09:00
Date Received: 05/23/02
Matrix: TRIP BLANK

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50	5	E524.2	06/02/02 01:50 / sbd
Bromobenzene	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
Bromochloromethane	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
Bromodichloromethane	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
Bromoform	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
Bromomethane	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
n-Butylbenzene	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
sec-Butylbenzene	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
tert-Butylbenzene	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
Carbon tetrachloride	ND	ug/L		0.50	5	E524.2	06/02/02 01:50 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
Chlorobenzene	ND	ug/L		0.50	100	E524.2	06/02/02 01:50 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
Chloroethane	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
Chloroform	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
Chloromethane	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
4-Chlorotoluene	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		E524.2	06/02/02 01:50 / sbd
Dibromomethane	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50	600	E524.2	06/02/02 01:50 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50	75	E524.2	06/02/02 01:50 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
1,2-Dibromoethane	ND	ug/L		0.50	5	E524.2	06/02/02 01:50 / sbd
1,1-Dichloroethene	ND	ug/L		0.50	7	E524.2	06/02/02 01:50 / sbd
cis-1,2-Dichloroethene	ND	ug/L		0.50	70	E524.2	06/02/02 01:50 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50	100	E524.2	06/02/02 01:50 / sbd
1,2-Dichloropropane	ND	ug/L		0.50	5	E524.2	06/02/02 01:50 / sbd
1,3-Dichloropropane	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
2,2-Dichloropropane	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
1,1-Dichloropropene	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
Ethylbenzene	ND	ug/L		0.50	700	E524.2	06/02/02 01:50 / sbd
Hexachlorobutadiene	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
Isopropylbenzene	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF/Livingston
Lab ID: B02051176-004
Client Sample ID: Trip Blank

Report Date: 06/17/02
Collection Date: 05/22/02 09:00
Date Received: 05/23/02
Matrix: TRIP BLANK

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
p-Isopropyltoluene	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
Methyl tert-butyl ether (MTBE)	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
Methylene chloride	ND	ug/L		0.50	5	E524.2	06/02/02 01:50 / sbd
Naphthalene	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
n-Propylbenzene	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
Styrene	ND	ug/L		0.50	100	E524.2	06/02/02 01:50 / sbd
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
Tetrachloroethene	ND	ug/L		0.50	5	E524.2	06/02/02 01:50 / sbd
Toluene	ND	ug/L		0.50	1000	E524.2	06/02/02 01:50 / sbd
1,2,3-Trichlorobenzene	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
1,2,4-Trichlorobenzene	ND	ug/L		0.50	70	E524.2	06/02/02 01:50 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50	200	E524.2	06/02/02 01:50 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50	5	E524.2	06/02/02 01:50 / sbd
Trichloroethene	ND	ug/L		0.50	5	E524.2	06/02/02 01:50 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
1,2,3-Trichloropropane	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
Trihalomethanes, Total	ND	ug/L			80	E524.2	06/02/02 01:50 / sbd
1,2,4-Trimethylbenzene	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
1,3,5-Trimethylbenzene	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
Vinyl chloride	ND	ug/L		0.50	2	E524.2	06/02/02 01:50 / sbd
m+p-Xylenes	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
o-Xylene	ND	ug/L		0.50		E524.2	06/02/02 01:50 / sbd
Xylenes, Total	ND	ug/L			10000	E524.2	06/02/02 01:50 / sbd
Surr: p-Bromofluorobenzene	124	%REC	S		80-120	E524.2	06/02/02 01:50 / sbd
Surr: 1,2-Dichloroethane-d4	109	%REC			74-127	E524.2	06/02/02 01:50 / sbd
Surr: Toluene-d8	112	%REC			80-120	E524.2	06/02/02 01:50 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
S - Spike recovery outside of advisory limits.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF/Livingston

Report Date: 06/17/02
Work Order: B02051176

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **E524.2**									Batch: R9438
Sample ID: **LCS060102**	Laboratory Control Spike								06/01/02 16:09
Benzene	4.4	ug/L	0.500	88	60	140			
Bromobenzene	4.44	ug/L	0.500	88.8	60	140			
Bromochloromethane	4.28	ug/L	0.500	85.6	60	140			
Bromodichloromethane	4.2	ug/L	0.500	84	60	140			
Bromoform	4	ug/L	0.500	80	60	140			
Bromomethane	4.76	ug/L	0.500	95.2	60	140			
n-Butylbenzene	4.44	ug/L	0.500	88.8	60	140			
sec-Butylbenzene	4.32	ug/L	0.500	86.4	60	140			
tert-Butylbenzene	4.48	ug/L	0.500	89.6	60	140			
Carbon tetrachloride	4.64	ug/L	0.500	92.8	60	140			
1,2-Dichloroethane	4.32	ug/L	0.500	86.4	60	140			
Chlorobenzene	4.64	ug/L	0.500	92.8	60	140			
Chlorodibromomethane	4.12	ug/L	0.500	82.4	60	140			
Chloroethane	4.72	ug/L	0.500	94.4	60	140			
Chloroform	4.24	ug/L	0.500	84.8	60	140			
Chloromethane	4.44	ug/L	0.500	88.8	60	140			
2-Chlorotoluene	4.72	ug/L	0.500	94.4	60	140			
4-Chlorotoluene	4.64	ug/L	0.500	92.8	60	140			
1,2-Dibromo-3-chloropropane	3.79	ug/L	1.00	75.8	60	140			
Dibromomethane	4.4	ug/L	0.500	88	60	140			
1,2-Dichlorobenzene	4.56	ug/L	0.500	91.2	60	140			
1,3-Dichlorobenzene	4.6	ug/L	0.500	92	60	140			
1,4-Dichlorobenzene	4.6	ug/L	0.500	92	60	140			
Dichlorodifluoromethane	5.12	ug/L	0.500	102	60	140			
1,1-Dichloroethane	4.36	ug/L	0.500	87.2	60	140			
1,2-Dibromoethane	4.24	ug/L	0.500	84.8	60	140			
1,1-Dichloroethene	4.36	ug/L	0.500	87.2	60	140			
cis-1,2-Dichloroethene	4.24	ug/L	0.500	84.8	60	140			
trans-1,2-Dichloroethene	4.36	ug/L	0.500	87.2	60	140			
1,2-Dichloropropane	4	ug/L	0.500	80	60	140			
1,3-Dichloropropane	4.24	ug/L	0.500	84.8	60	140			
2,2-Dichloropropane	4.68	ug/L	0.500	93.6	60	140			
1,1-Dichloropropene	4.2	ug/L	0.500	84	60	140			
cis-1,3-Dichloropropene	4.32	ug/L	0.500	86.4	60	140			
trans-1,3-Dichloropropene	4.6	ug/L	0.500	92	60	140			
Ethylbenzene	4.4	ug/L	0.500	88	60	140			
Hexachlorobutadiene	4.48	ug/L	0.500	89.6	60	140			
Isopropylbenzene	4.64	ug/L	0.500	92.8	60	140			
p-Isopropyltoluene	4.64	ug/L	0.500	92.8	60	140			
Methyl tert-butyl ether (MTBE)	4.44	ug/L	0.500	88.8	60	140			
Methylene chloride	4.08	ug/L	0.500	81.6	60	140			
Naphthalene	4.28	ug/L	0.500	85.6	60	140			
n-Propylbenzene	4.52	ug/L	0.500	90.4	60	140			

Qualifiers: ND - Not Detected at the Reporting Limit
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits

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QA/QC Summary Report

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF/Livingston

Report Date: 06/17/02
Work Order: B02051176

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E524.2									Batch: R9438
Sample ID: LCS060102	Laboratory Control Spike								06/01/02 16:09
Styrene	4.36	ug/L	0.500	87.2	60	140			
1,1,1,2-Tetrachloroethane	4	ug/L	0.500	79.9	60	140			
1,1,2,2-Tetrachloroethane	3.94	ug/L	0.500	78.9	60	140			
Tetrachloroethene	4.36	ug/L	0.500	87.2	60	140			
Toluene	4.68	ug/L	0.500	93.6	60	140			
1,2,3-Trichlorobenzene	4.32	ug/L	0.500	86.4	60	140			
1,2,4-Trichlorobenzene	4.28	ug/L	0.500	85.6	60	140			
1,1,1-Trichloroethane	4.48	ug/L	0.500	89.6	60	140			
1,1,2-Trichloroethane	4.2	ug/L	0.500	84	60	140			
Trichloroethene	4.24	ug/L	0.500	84.8	60	140			
Trichlorofluoromethane	4.84	ug/L	0.500	96.8	60	140			
1,2,3-Trichloropropane	3.94	ug/L	0.500	78.9	60	140			
1,2,4-Trimethylbenzene	4.28	ug/L	0.500	85.6	60	140			
1,3,5-Trimethylbenzene	4.44	ug/L	0.500	88.8	60	140			
Vinyl chloride	5.52	ug/L	0.500	110	60	140			
m+p-Xylenes	8.48	ug/L	0.500	84.8	60	140			
o-Xylene	4.2	ug/L	0.500	84	60	140			
Surr: p-Bromofluorobenzene			0.500	115	80	120			
Surr: 1,2-Dichloroethane-d4			0.500	104	74	127			
Surr: Toluene-d8			0.500	116	80	120			
Sample ID: MBLK-0601A	Method Blank								06/01/02 16:43
Benzene	ND	ug/L	0.500						
Bromobenzene	ND	ug/L	0.500						
Bromochloromethane	ND	ug/L	0.500						
Bromodichloromethane	ND	ug/L	0.500						
Bromoform	ND	ug/L	0.500						
Bromomethane	ND	ug/L	0.500						
n-Butylbenzene	ND	ug/L	0.500						
sec-Butylbenzene	ND	ug/L	0.500						
tert-Butylbenzene	ND	ug/L	0.500						
Carbon tetrachloride	ND	ug/L	0.500						
1,2-Dichloroethane	ND	ug/L	0.500						
Chlorobenzene	ND	ug/L	0.500						
Chlorodibromomethane	ND	ug/L	0.500						
Chloroethane	ND	ug/L	0.500						
Chloroform	ND	ug/L	0.500						
Chloromethane	ND	ug/L	0.500						
2-Chlorotoluene	ND	ug/L	0.500						
4-Chlorotoluene	ND	ug/L	0.500						
1,2-Dibromo-3-chloropropane	ND	ug/L	1.00						
Dibromomethane	ND	ug/L	0.500						
1,2-Dichlorobenzene	ND	ug/L	0.500						

Qualifiers: ND - Not Detected at the Reporting Limit
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits

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QA/QC Summary Report

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF/Livingston

Report Date: 06/17/02
Work Order: B02051176

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E524.2									Batch: R9438
Sample ID: MBLK-0601A	Method Blank								06/01/02 16:43
1,3-Dichlorobenzene	ND	ug/L	0.500						
1,4-Dichlorobenzene	ND	ug/L	0.500						
Dichlorodifluoromethane	ND	ug/L	0.500						
1,1-Dichloroethane	ND	ug/L	0.500						
1,2-Dibromoethane	ND	ug/L	0.500						
1,1-Dichloroethene	ND	ug/L	0.500						
cis-1,2-Dichloroethene	ND	ug/L	0.500						
trans-1,2-Dichloroethene	ND	ug/L	0.500						
1,2-Dichloropropane	ND	ug/L	0.500						
1,3-Dichloropropane	ND	ug/L	0.500						
2,2-Dichloropropane	ND	ug/L	0.500						
1,1-Dichloropropene	ND	ug/L	0.500						
cis-1,3-Dichloropropene	ND	ug/L	0.500						
trans-1,3-Dichloropropene	ND	ug/L	0.500						
Ethylbenzene	ND	ug/L	0.500						
Hexachlorobutadiene	ND	ug/L	0.500						
Isopropylbenzene	ND	ug/L	0.500						
p-Isopropyltoluene	ND	ug/L	0.500						
Methyl tert-butyl ether (MTBE)	ND	ug/L	0.500						
Methylene chloride	ND	ug/L	0.500						
Naphthalene	ND	ug/L	0.500						
n-Propylbenzene	ND	ug/L	0.500						
Styrene	ND	ug/L	0.500						
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500						
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500						
Tetrachloroethene	ND	ug/L	0.500						
Toluene	ND	ug/L	0.500						
1,2,3-Trichlorobenzene	ND	ug/L	0.500						
1,2,4-Trichlorobenzene	ND	ug/L	0.500						
1,1,1-Trichloroethane	ND	ug/L	0.500						
1,1,2-Trichloroethane	ND	ug/L	0.500						
Trichloroethene	ND	ug/L	0.500						
Trichlorofluoromethane	ND	ug/L	0.500						
1,2,3-Trichloropropane	ND	ug/L	0.500						
1,2,4-Trimethylbenzene	ND	ug/L	0.500						
1,3,5-Trimethylbenzene	ND	ug/L	0.500						
Vinyl chloride	ND	ug/L	0.500						
m+p-Xylenes	ND	ug/L	0.500						
o-Xylene	ND	ug/L	0.500						
Trihalomethanes, Total	ND	ug/L							
Xylenes, Total	ND	ug/L							
Surr: p-Bromofluorobenzene			0.500	116	80	120			
Surr: 1,2-Dichloroethane-d4			0.500	100	74	127			

Qualifiers: ND - Not Detected at the Reporting Limit
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits

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QA/QC Summary Report

Client: Envirocon Inc
Project: Proj. No. 140101, BNSF/Livingston

Report Date: 06/17/02
Work Order: B02051176

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **E524.2**									Batch: R9438
Sample ID: **MBLK-0601A**	Method Blank								06/01/02 16:43
Surr: Toluene-d8			0.500	112	80	120			

Qualifiers: ND - Not Detected at the Reporting Limit
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits

Energy Laboratories Inc

Sample Receipt Checklist

Client Name **ENVRCN-INC**

Date and Time Received: **5/23/02**

Work Order Number **B02051176**

Received by rln

Checklist completed by Signature 05/23/02 Date

Reviewed by Initials 5-24-02 Date

Carrier name: Bus

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	4 °C
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments:

Corrective Action _____

ENVIROCON, INC.

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
140101	BNSF/Livingston

SAMPLERS: (Signature) Dan McCaffery

	STAT. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CON-TAINERS	VOCs by 524.2	VOCs by 524.2	REMARKS
B026511	76-001	5/22/02	930		X	1828	2 (1+1)	X		Note: Analyse only either A or B. Send results to attn: Dan McCaffery Envirocon PO 16655 Missoula, MT 59808 ph 406 523-1186 FAX 543-7987
	002		930		X	1808	↓	X		
	003		900		X	1827	↓		X	
	004	↓				trip blank	1			

Relinquished (Signature)	Date/Time	Received by: (Signature)	Relinguished by: (Signature)	Date/Time	Received by: (Signature)
Dan McCaffery	5/22/02 1200				
Relinquished (Signature)	Date/Time	Received by: (Signature)	Relinguished by: (Signature)	Date/Time	Received by: (Signature)

Chain of Custody Seal:

Intact? (yes/no) No Seals

Lab Personnel (receiving)

Signature: Kristi Lee 05/23/02 0700

Remarks

Split Samples:
[] Accepted [] Declined

Signature

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ANALYTICAL SUMMARY REPORT

June 19, 2002

Dan McCaffery
Envirocon Inc
PO Box 16655
Missoula, MT 59808

Workorder No.: B02051176

Project Name: Proj. No. 140101, BNSF/Livingston

Energy Laboratories Inc received the following 4 samples from Envirocon Inc on 5/23/2002 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B02051176-001	1828	05/22/02 9:30	05/23/02	Aqueous	524-Purgeable Organics, SDWA
B02051176-002	1808	05/22/02 9:30	05/23/02	Aqueous	Same As Above
B02051176-003	1827	05/22/02 9:00	05/23/02	Aqueous	624-Purgeable Organics
B02051176-004	Trip Blank	05/22/02 9:00	05/23/02	Trip Blank	524-Purgeable Organics, SDWA

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except if noted in report comments or the Case Narrative.

If you have any questions regarding these tests results, please call

Report Approved By: _____

NOVEMBER 2002

BNSF GROUND WATER SAMPLE RESULTS

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: BNSF Livingston
Lab ID: B02110925-001
Client Sample ID: 1829

9H-1

Report Date: 12/05/02
Collection Date: 11/18/02 14:45
Date Received: 11/20/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	11/30/02 19:05 / sbd
Bromoform	ND	ug/L		0.50		E624	11/30/02 19:05 / sbd
Bromomethane	ND	ug/L		0.50		E624	11/30/02 19:05 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	11/30/02 19:05 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	11/30/02 19:05 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	11/30/02 19:05 / sbd
Chloroethane	ND	ug/L		0.50		E624	11/30/02 19:05 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	11/30/02 19:05 / sbd
Chloroform	ND	ug/L		0.50		E624	11/30/02 19:05 / sbd
Chloromethane	ND	ug/L		0.50		E624	11/30/02 19:05 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	11/30/02 19:05 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	11/30/02 19:05 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	11/30/02 19:05 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	11/30/02 19:05 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	11/30/02 19:05 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	11/30/02 19:05 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	11/30/02 19:05 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	11/30/02 19:05 / sbd
cis-1,2-Dichloroethene	ND	ug/L		0.50		E624	11/30/02 19:05 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	11/30/02 19:05 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	11/30/02 19:05 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	11/30/02 19:05 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	11/30/02 19:05 / sbd
Methylene chloride	ND	ug/L		0.50		E624	11/30/02 19:05 / sbd
Tetrachloroethene	1.4	ug/L		0.50		E624	11/30/02 19:05 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	11/30/02 19:05 / sbd
Trichloroethene	ND	ug/L		0.50		E624	11/30/02 19:05 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	11/30/02 19:05 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	11/30/02 19:05 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	11/30/02 19:05 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	11/30/02 19:05 / sbd
Surr: 1,2-Dichloroethane-d4	98.8	%REC			74-127	E624	11/30/02 19:05 / sbd
Surr: p-Bromofluorobenzene	106	%REC			80-120	E624	11/30/02 19:05 / sbd
Surr: Toluene-d8	100	%REC			80-120	E624	11/30/02 19:05 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: BNSF Livingston
Lab ID: B02110925-002
Client Sample ID: 1830

9H-2

Report Date: 12/05/02
Collection Date: 11/18/02 15:23
Date Received: 11/20/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	12/01/02 05:45 / sbd
Bromoform	ND	ug/L		0.50		E624	12/01/02 05:45 / sbd
Bromomethane	ND	ug/L		0.50		E624	12/01/02 05:45 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	12/01/02 05:45 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	12/01/02 05:45 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	12/01/02 05:45 / sbd
Chloroethane	ND	ug/L		0.50		E624	12/01/02 05:45 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	12/01/02 05:45 / sbd
Chloroform	ND	ug/L		0.50		E624	12/01/02 05:45 / sbd
Chloromethane	ND	ug/L		0.50		E624	12/01/02 05:45 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	12/01/02 05:45 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	12/01/02 05:45 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	12/01/02 05:45 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	12/01/02 05:45 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	12/01/02 05:45 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	12/01/02 05:45 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	12/01/02 05:45 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	12/01/02 05:45 / sbd
cis-1,2-Dichloroethene	ND	ug/L		0.50		E624	12/01/02 05:45 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	12/01/02 05:45 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	12/01/02 05:45 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	12/01/02 05:45 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	12/01/02 05:45 / sbd
Methylene chloride	ND	ug/L		0.50		E624	12/01/02 05:45 / sbd
Tetrachloroethene	0.28	ug/L	J	0.50		E624	12/01/02 05:45 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	12/01/02 05:45 / sbd
Trichloroethene	ND	ug/L		0.50		E624	12/01/02 05:45 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	12/01/02 05:45 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	12/01/02 05:45 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	12/01/02 05:45 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	12/01/02 05:45 / sbd
Surr: 1,2-Dichloroethane-d4	86.8	%REC			74-127	E624	12/01/02 05:45 / sbd
Surr: p-Bromofluorobenzene	106	%REC			80-120	E624	12/01/02 05:45 / sbd
Surr: Toluene-d8	108	%REC			80-120	E624	12/01/02 05:45 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: BNSF Livingston
Lab ID: B02110925-003
Client Sample ID: 1831

92-2

Report Date: 12/05/02
Collection Date: 11/18/02 16:24
Date Received: 11/20/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	11/30/02 20:12 / sbd
Bromoform	ND	ug/L		0.50		E624	11/30/02 20:12 / sbd
Bromomethane	ND	ug/L		0.50		E624	11/30/02 20:12 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	11/30/02 20:12 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	11/30/02 20:12 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	11/30/02 20:12 / sbd
Chloroethane	ND	ug/L		0.50		E624	11/30/02 20:12 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	11/30/02 20:12 / sbd
Chloroform	ND	ug/L		0.50		E624	11/30/02 20:12 / sbd
Chloromethane	ND	ug/L		0.50		E624	11/30/02 20:12 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	11/30/02 20:12 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	11/30/02 20:12 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	11/30/02 20:12 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	11/30/02 20:12 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	11/30/02 20:12 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	11/30/02 20:12 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	11/30/02 20:12 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	11/30/02 20:12 / sbd
cis-1,2-Dichloroethene	0.34	ug/L	J	0.50		E624	11/30/02 20:12 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	11/30/02 20:12 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	11/30/02 20:12 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	11/30/02 20:12 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	11/30/02 20:12 / sbd
Methylene chloride	ND	ug/L		0.50		E624	11/30/02 20:12 / sbd
Tetrachloroethene	8.9	ug/L		0.50		E624	11/30/02 20:12 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	11/30/02 20:12 / sbd
Trichloroethene	0.66	ug/L		0.50		E624	11/30/02 20:12 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	11/30/02 20:12 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	11/30/02 20:12 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	11/30/02 20:12 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	11/30/02 20:12 / sbd
Surr: 1,2-Dichloroethane-d4	102	%REC			74-127	E624	11/30/02 20:12 / sbd
Surr: p-Bromofluorobenzene	110	%REC			80-120	E624	11/30/02 20:12 / sbd
Surr: Toluene-d8	102	%REC			80-120	E624	11/30/02 20:12 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: BNSF Livingston
Lab ID: B02110925-004
Client Sample ID: 1832 90-3

Report Date: 12/05/02
Collection Date: 11/18/02 16:55
Date Received: 11/20/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	11/30/02 21:20 / sbd
Bromoform	ND	ug/L		0.50		E624	11/30/02 21:20 / sbd
Bromomethane	ND	ug/L		0.50		E624	11/30/02 21:20 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	11/30/02 21:20 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	11/30/02 21:20 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	11/30/02 21:20 / sbd
Chloroethane	ND	ug/L		0.50		E624	11/30/02 21:20 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	11/30/02 21:20 / sbd
Chloroform	ND	ug/L		0.50		E624	11/30/02 21:20 / sbd
Chloromethane	ND	ug/L		0.50		E624	11/30/02 21:20 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	11/30/02 21:20 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	11/30/02 21:20 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	11/30/02 21:20 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	11/30/02 21:20 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	11/30/02 21:20 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	11/30/02 21:20 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	11/30/02 21:20 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	11/30/02 21:20 / sbd
cis-1,2-Dichloroethene	ND	ug/L		0.50		E624	11/30/02 21:20 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	11/30/02 21:20 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	11/30/02 21:20 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	11/30/02 21:20 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	11/30/02 21:20 / sbd
Methylene chloride	ND	ug/L		0.50		E624	11/30/02 21:20 / sbd
Tetrachloroethene	15	ug/L		0.50		E624	11/30/02 21:20 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	11/30/02 21:20 / sbd
Trichloroethene	0.86	ug/L		0.50		E624	11/30/02 21:20 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	11/30/02 21:20 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	11/30/02 21:20 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	11/30/02 21:20 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	11/30/02 21:20 / sbd
Surr: 1,2-Dichloroethane-d4	103	%REC			74-127	E624	11/30/02 21:20 / sbd
Surr: p-Bromofluorobenzene	105	%REC			80-120	E624	11/30/02 21:20 / sbd
Surr: Toluene-d8	104	%REC			80-120	E624	11/30/02 21:20 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: BNSF Livingston
Lab ID: B02110925-005
Client Sample ID: 1833

89-3

Report Date: 12/05/02
Collection Date: 11/19/02 09:30
Date Received: 11/20/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	11/30/02 21:53 / sbd
Bromoform	ND	ug/L		0.50		E624	11/30/02 21:53 / sbd
Bromomethane	ND	ug/L		0.50		E624	11/30/02 21:53 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	11/30/02 21:53 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	11/30/02 21:53 / sbd
Chlorodibromomethane	0.31	ug/L	J	0.50		E624	11/30/02 21:53 / sbd
Chloroethane	ND	ug/L		0.50		E624	11/30/02 21:53 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	11/30/02 21:53 / sbd
Chloroform	ND	ug/L		0.50		E624	11/30/02 21:53 / sbd
Chloromethane	ND	ug/L		0.50		E624	11/30/02 21:53 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	11/30/02 21:53 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	11/30/02 21:53 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	11/30/02 21:53 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	11/30/02 21:53 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	11/30/02 21:53 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	11/30/02 21:53 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	11/30/02 21:53 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	11/30/02 21:53 / sbd
cis-1,2-Dichloroethene	0.37	ug/L	J	0.50		E624	11/30/02 21:53 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	11/30/02 21:53 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	11/30/02 21:53 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	11/30/02 21:53 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	11/30/02 21:53 / sbd
Methylene chloride	ND	ug/L		0.50		E624	11/30/02 21:53 / sbd
Tetrachloroethene	146	ug/L		10		E624	12/02/02 12:30 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	11/30/02 21:53 / sbd
Trichloroethene	1.4	ug/L		0.50		E624	11/30/02 21:53 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	11/30/02 21:53 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	11/30/02 21:53 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	11/30/02 21:53 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	11/30/02 21:53 / sbd
Surr: 1,2-Dichloroethane-d4	104	%REC			74-127	E624	11/30/02 21:53 / sbd
Surr: p-Bromofluorobenzene	108	%REC			80-120	E624	11/30/02 21:53 / sbd
Surr: Toluene-d8	101	%REC			80-120	E624	11/30/02 21:53 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: BNSF Livingston
Lab ID: B02110925-006
Client Sample ID: 1834

89-3 dupl.

Report Date: 12/05/02
Collection Date: 11/19/02 09:35
Date Received: 11/20/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	11/30/02 22:27 / sbd
Bromoform	ND	ug/L		0.50		E624	11/30/02 22:27 / sbd
Bromomethane	ND	ug/L		0.50		E624	11/30/02 22:27 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	11/30/02 22:27 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	11/30/02 22:27 / sbd
Chlorodibromomethane	0.20	ug/L	J	0.50		E624	11/30/02 22:27 / sbd
Chloroethane	ND	ug/L		0.50		E624	11/30/02 22:27 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	11/30/02 22:27 / sbd
Chloroform	ND	ug/L		0.50		E624	11/30/02 22:27 / sbd
Chloromethane	ND	ug/L		0.50		E624	11/30/02 22:27 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	11/30/02 22:27 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	11/30/02 22:27 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	11/30/02 22:27 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	11/30/02 22:27 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	11/30/02 22:27 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	11/30/02 22:27 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	11/30/02 22:27 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	11/30/02 22:27 / sbd
cis-1,2-Dichloroethene	0.31	ug/L	J	0.50		E624	11/30/02 22:27 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	11/30/02 22:27 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	11/30/02 22:27 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	11/30/02 22:27 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	11/30/02 22:27 / sbd
Methylene chloride	ND	ug/L		0.50		E624	11/30/02 22:27 / sbd
Tetrachloroethene	121	ug/L		10		E624	12/01/02 09:46 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	11/30/02 22:27 / sbd
Trichloroethene	1.2	ug/L		0.50		E624	11/30/02 22:27 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	11/30/02 22:27 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	11/30/02 22:27 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	11/30/02 22:27 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	11/30/02 22:27 / sbd
Surr: 1,2-Dichloroethane-d4	103	%REC			74-127	E624	11/30/02 22:27 / sbd
Surr: p-Bromofluorobenzene	110	%REC			80-120	E624	11/30/02 22:27 / sbd
Surr: Toluene-d8	105	%REC			80-120	E624	11/30/02 22:27 / sbd

Report Definitions:
RL - Analyte reporting limit.
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J - Estimated value. The analyte was present but less than the reporting limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: BNSF Livingston
Lab ID: B02110925-007
Client Sample ID: 1835

89-9

Report Date: 12/05/02
Collection Date: 11/19/02 10:18
Date Received: 11/20/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	11/30/02 23:00 / sbd
Bromoform	ND	ug/L		0.50		E624	11/30/02 23:00 / sbd
Bromomethane	ND	ug/L		0.50		E624	11/30/02 23:00 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	11/30/02 23:00 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	11/30/02 23:00 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	11/30/02 23:00 / sbd
Chloroethane	ND	ug/L		0.50		E624	11/30/02 23:00 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	11/30/02 23:00 / sbd
Chloroform	ND	ug/L		0.50		E624	11/30/02 23:00 / sbd
Chloromethane	ND	ug/L		0.50		E624	11/30/02 23:00 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	11/30/02 23:00 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	11/30/02 23:00 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	11/30/02 23:00 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	11/30/02 23:00 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	11/30/02 23:00 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	11/30/02 23:00 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	11/30/02 23:00 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	11/30/02 23:00 / sbd
cis-1,2-Dichloroethene	1.1	ug/L		0.50		E624	11/30/02 23:00 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	11/30/02 23:00 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	11/30/02 23:00 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	11/30/02 23:00 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	11/30/02 23:00 / sbd
Methylene chloride	ND	ug/L		0.50		E624	11/30/02 23:00 / sbd
Tetrachloroethene	40	ug/L		10		E624	12/01/02 10:33 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	11/30/02 23:00 / sbd
Trichloroethene	2.0	ug/L		0.50		E624	11/30/02 23:00 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	11/30/02 23:00 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	11/30/02 23:00 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	11/30/02 23:00 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	11/30/02 23:00 / sbd
Surr: 1,2-Dichloroethane-d4	105	%REC			74-127	E624	11/30/02 23:00 / sbd
Surr: p-Bromofluorobenzene	106	%REC			80-120	E624	11/30/02 23:00 / sbd
Surr: Toluene-d8	106	%REC			80-120	E624	11/30/02 23:00 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: BNSF Livingston
Lab ID: B02110925-008
Client Sample ID: 1836

trip blank

Report Date: 12/05/02
Collection Date: 11/19/02 10:25
Date Received: 11/20/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	0.50	ug/L		0.50		E624	11/30/02 20:46 / sbd
Bromoform	ND	ug/L		0.50		E624	11/30/02 20:46 / sbd
Bromomethane	ND	ug/L		0.50		E624	11/30/02 20:46 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	11/30/02 20:46 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	11/30/02 20:46 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	11/30/02 20:46 / sbd
Chloroethane	ND	ug/L		0.50		E624	11/30/02 20:46 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	11/30/02 20:46 / sbd
Chloroform	1.8	ug/L		0.50		E624	11/30/02 20:46 / sbd
Chloromethane	ND	ug/L		0.50		E624	11/30/02 20:46 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	11/30/02 20:46 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	11/30/02 20:46 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	11/30/02 20:46 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	11/30/02 20:46 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	11/30/02 20:46 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	11/30/02 20:46 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	11/30/02 20:46 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	11/30/02 20:46 / sbd
cis-1,2-Dichloroethene	ND	ug/L		0.50		E624	11/30/02 20:46 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	11/30/02 20:46 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	11/30/02 20:46 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	11/30/02 20:46 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	11/30/02 20:46 / sbd
Methylene chloride	ND	ug/L		0.50		E624	11/30/02 20:46 / sbd
Tetrachloroethene	ND	ug/L		0.50		E624	11/30/02 20:46 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	11/30/02 20:46 / sbd
Trichloroethene	ND	ug/L		0.50		E624	11/30/02 20:46 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	11/30/02 20:46 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	11/30/02 20:46 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	11/30/02 20:46 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	11/30/02 20:46 / sbd
Surr: 1,2-Dichloroethane-d4	103	%REC			74-127	E624	11/30/02 20:46 / sbd
Surr: p-Bromofluorobenzene	105	%REC			80-120	E624	11/30/02 20:46 / sbd
Surr: Toluene-d8	106	%REC			80-120	E624	11/30/02 20:46 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: BNSF Livingston
Lab ID: B02110925-009
Client Sample ID: 1837

92-1

Report Date: 12/05/02
Collection Date: 11/19/02 10:52
Date Received: 11/20/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	11/30/02 23:35 / sbd
Bromoform	ND	ug/L		0.50		E624	11/30/02 23:35 / sbd
Bromomethane	ND	ug/L		0.50		E624	11/30/02 23:35 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	11/30/02 23:35 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	11/30/02 23:35 / sbd
Chlorodibromomethane	0.16	ug/L	J	0.50		E624	11/30/02 23:35 / sbd
Chloroethane	ND	ug/L		0.50		E624	11/30/02 23:35 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	11/30/02 23:35 / sbd
Chloroform	ND	ug/L		0.50		E624	11/30/02 23:35 / sbd
Chloromethane	ND	ug/L		0.50		E624	11/30/02 23:35 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	11/30/02 23:35 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	11/30/02 23:35 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	11/30/02 23:35 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	11/30/02 23:35 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	11/30/02 23:35 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	11/30/02 23:35 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	11/30/02 23:35 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	11/30/02 23:35 / sbd
cis-1,2-Dichloroethene	2.6	ug/L		0.50		E624	11/30/02 23:35 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	11/30/02 23:35 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	11/30/02 23:35 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	11/30/02 23:35 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	11/30/02 23:35 / sbd
Methylene chloride	ND	ug/L		0.50		E624	11/30/02 23:35 / sbd
Tetrachloroethene	81	ug/L		10		E624	12/01/02 15:34 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	11/30/02 23:35 / sbd
Trichloroethene	ND	ug/L		0.50		E624	11/30/02 23:35 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	11/30/02 23:35 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	11/30/02 23:35 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	11/30/02 23:35 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	11/30/02 23:35 / sbd
Surr: 1,2-Dichloroethane-d4	104	%REC			74-127	E624	11/30/02 23:35 / sbd
Surr: p-Bromofluorobenzene	106	%REC			80-120	E624	11/30/02 23:35 / sbd
Surr: Toluene-d8	103	%REC			80-120	E624	11/30/02 23:35 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: BNSF Livingston
Lab ID: B02110925-010
Client Sample ID: 1838

L-87-2

Report Date: 12/05/02
Collection Date: 11/19/02 11:40
Date Received: 11/20/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	12/01/02 00:07 / sbd
Bromoform	ND	ug/L		0.50		E624	12/01/02 00:07 / sbd
Bromomethane	ND	ug/L		0.50		E624	12/01/02 00:07 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	12/01/02 00:07 / sbd
Chlorobenzene	26	ug/L		5.0		E624	12/01/02 16:08 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	12/01/02 00:07 / sbd
Chloroethane	ND	ug/L		0.50		E624	12/01/02 00:07 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	12/01/02 00:07 / sbd
Chloroform	ND	ug/L		0.50		E624	12/01/02 00:07 / sbd
Chloromethane	ND	ug/L		0.50		E624	12/01/02 00:07 / sbd
2-Chlorotoluene	53	ug/L		5.0		E624	12/01/02 16:08 / sbd
1,2-Dichlorobenzene	1.7	ug/L		0.50		E624	12/01/02 00:07 / sbd
1,3-Dichlorobenzene	0.58	ug/L		0.50		E624	12/01/02 00:07 / sbd
1,4-Dichlorobenzene	4.1	ug/L		0.50		E624	12/01/02 00:07 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	12/01/02 00:07 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	12/01/02 00:07 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	12/01/02 00:07 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	12/01/02 00:07 / sbd
cis-1,2-Dichloroethene	18	ug/L		0.50		E624	12/01/02 00:07 / sbd
trans-1,2-Dichloroethene	1.0	ug/L		0.50		E624	12/01/02 00:07 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	12/01/02 00:07 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	12/01/02 00:07 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	12/01/02 00:07 / sbd
Methylene chloride	ND	ug/L		0.50		E624	12/01/02 00:07 / sbd
Tetrachloroethene	ND	ug/L		0.50		E624	12/01/02 00:07 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	12/01/02 00:07 / sbd
Trichloroethene	0.68	ug/L		0.50		E624	12/01/02 00:07 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	12/01/02 00:07 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	12/01/02 00:07 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	12/01/02 00:07 / sbd
Vinyl chloride	15	ug/L		0.50		E624	12/01/02 00:07 / sbd
Surr: 1,2-Dichloroethane-d4	100	%REC			74-127	E624	12/01/02 00:07 / sbd
Surr: p-Bromofluorobenzene	101	%REC			80-120	E624	12/01/02 00:07 / sbd
Surr: Toluene-d8	104	%REC			80-120	E624	12/01/02 00:07 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: BNSF Livingston
Lab ID: B02110925-011
Client Sample ID: 1839

89-H

Report Date: 12/05/02
Collection Date: 11/19/02 13:30
Date Received: 11/20/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	12/01/02 00:42 / sbd
Bromoform	ND	ug/L		0.50		E624	12/01/02 00:42 / sbd
Bromomethane	ND	ug/L		0.50		E624	12/01/02 00:42 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	12/01/02 00:42 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	12/01/02 00:42 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	12/01/02 00:42 / sbd
Chloroethane	ND	ug/L		0.50		E624	12/01/02 00:42 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	12/01/02 00:42 / sbd
Chloroform	ND	ug/L		0.50		E624	12/01/02 00:42 / sbd
Chloromethane	ND	ug/L		0.50		E624	12/01/02 00:42 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	12/01/02 00:42 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	12/01/02 00:42 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	12/01/02 00:42 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	12/01/02 00:42 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	12/01/02 00:42 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	12/01/02 00:42 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	12/01/02 00:42 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	12/01/02 00:42 / sbd
cis-1,2-Dichloroethene	3.3	ug/L		0.50		E624	12/01/02 00:42 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	12/01/02 00:42 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	12/01/02 00:42 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	12/01/02 00:42 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	12/01/02 00:42 / sbd
Methylene chloride	ND	ug/L		0.50		E624	12/01/02 00:42 / sbd
Tetrachloroethene	76	ug/L		10		E624	12/01/02 16:41 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	12/01/02 00:42 / sbd
Trichloroethene	1.4	ug/L		0.50		E624	12/01/02 00:42 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	12/01/02 00:42 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	12/01/02 00:42 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	12/01/02 00:42 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	12/01/02 00:42 / sbd
Surr: 1,2-Dichloroethane-d4	100	%REC			74-127	E624	12/01/02 00:42 / sbd
Surr: p-Bromofluorobenzene	110	%REC			80-120	E624	12/01/02 00:42 / sbd
Surr: Toluene-d8	103	%REC			80-120	E624	12/01/02 00:42 / sbd

Report Definitions:
RL - Analyte reporting limit.
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MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: BNSF Livingston
Lab ID: B02110925-012
Client Sample ID: 1840

L-87-3

Report Date: 12/05/02
Collection Date: 11/19/02 14:15
Date Received: 11/20/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	12/01/02 01:15 / sbd
Bromoform	ND	ug/L		0.50		E624	12/01/02 01:15 / sbd
Bromomethane	ND	ug/L		0.50		E624	12/01/02 01:15 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	12/01/02 01:15 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	12/01/02 01:15 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	12/01/02 01:15 / sbd
Chloroethane	ND	ug/L		0.50		E624	12/01/02 01:15 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	12/01/02 01:15 / sbd
Chloroform	ND	ug/L		0.50		E624	12/01/02 01:15 / sbd
Chloromethane	ND	ug/L		0.50		E624	12/01/02 01:15 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	12/01/02 01:15 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	12/01/02 01:15 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	12/01/02 01:15 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	12/01/02 01:15 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	12/01/02 01:15 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	12/01/02 01:15 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	12/01/02 01:15 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	12/01/02 01:15 / sbd
cis-1,2-Dichloroethene	3.1	ug/L		0.50		E624	12/01/02 01:15 / sbd
trans-1,2-Dichloroethene	0.73	ug/L		0.50		E624	12/01/02 01:15 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	12/01/02 01:15 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	12/01/02 01:15 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	12/01/02 01:15 / sbd
Methylene chloride	ND	ug/L		0.50		E624	12/01/02 01:15 / sbd
Tetrachloroethene	46	ug/L		5.0		E624	12/01/02 17:14 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	12/01/02 01:15 / sbd
Trichloroethene	4.2	ug/L		0.50		E624	12/01/02 01:15 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	12/01/02 01:15 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	12/01/02 01:15 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	12/01/02 01:15 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	12/01/02 01:15 / sbd
Surr: 1,2-Dichloroethane-d4	98.0	%REC			74-127	E624	12/01/02 01:15 / sbd
Surr: p-Bromofluorobenzene	106	%REC			80-120	E624	12/01/02 01:15 / sbd
Surr: Toluene-d8	106	%REC			80-120	E624	12/01/02 01:15 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: BNSF Livingston
Lab ID: B02110925-013
Client Sample ID: 1841

L-88-10

Report Date: 12/05/02
Collection Date: 11/19/02 14:46
Date Received: 11/20/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	12/01/02 05:10 / sbd
Bromoform	ND	ug/L		0.50		E624	12/01/02 05:10 / sbd
Bromomethane	ND	ug/L		0.50		E624	12/01/02 05:10 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	12/01/02 05:10 / sbd
Chlorobenzene	4.7	ug/L		0.50		E624	12/01/02 05:10 / sbd
Chlorodibromomethane	0.098	ug/L	J	0.50		E624	12/01/02 05:10 / sbd
Chloroethane	ND	ug/L		0.50		E624	12/01/02 05:10 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	12/01/02 05:10 / sbd
Chloroform	ND	ug/L		0.50		E624	12/01/02 05:10 / sbd
Chloromethane	ND	ug/L		0.50		E624	12/01/02 05:10 / sbd
2-Chlorotoluene	0.56	ug/L		0.50		E624	12/01/02 05:10 / sbd
1,2-Dichlorobenzene	0.56	ug/L		0.50		E624	12/01/02 05:10 / sbd
1,3-Dichlorobenzene	0.23	ug/L	J	0.50		E624	12/01/02 05:10 / sbd
1,4-Dichlorobenzene	1.2	ug/L		0.50		E624	12/01/02 05:10 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	12/01/02 05:10 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	12/01/02 05:10 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	12/01/02 05:10 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	12/01/02 05:10 / sbd
cis-1,2-Dichloroethene	12	ug/L		0.50		E624	12/01/02 05:10 / sbd
trans-1,2-Dichloroethene	0.33	ug/L	J	0.50		E624	12/01/02 05:10 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	12/01/02 05:10 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	12/01/02 05:10 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	12/01/02 05:10 / sbd
Methylene chloride	ND	ug/L		0.50		E624	12/01/02 05:10 / sbd
Tetrachloroethene	25	ug/L		2.5		E624	12/01/02 17:48 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	12/01/02 05:10 / sbd
Trichloroethene	7.9	ug/L		0.50		E624	12/01/02 05:10 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	12/01/02 05:10 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	12/01/02 05:10 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	12/01/02 05:10 / sbd
Vinyl chloride	0.92	ug/L		0.50		E624	12/01/02 05:10 / sbd
Surr: 1,2-Dichloroethane-d4	102	%REC			74-127	E624	12/01/02 05:10 / sbd
Surr: p-Bromofluorobenzene	109	%REC			80-120	E624	12/01/02 05:10 / sbd
Surr: Toluene-d8	102	%REC			80-120	E624	12/01/02 05:10 / sbd

0.10 RPF

Report Definitions:

RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: BNSF Livingston
Lab ID: B02110925-014
Client Sample ID: 1842

L-87-8

Report Date: 12/05/02
Collection Date: 11/19/02 15:25
Date Received: 11/20/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	12/01/02 04:37 / sbd
Bromoform	ND	ug/L		0.50		E624	12/01/02 04:37 / sbd
Bromomethane	ND	ug/L		0.50		E624	12/01/02 04:37 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	12/01/02 04:37 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	12/01/02 04:37 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	12/01/02 04:37 / sbd
Chloroethane	ND	ug/L		0.50		E624	12/01/02 04:37 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	12/01/02 04:37 / sbd
Chloroform	ND	ug/L		0.50		E624	12/01/02 04:37 / sbd
Chloromethane	ND	ug/L		0.50		E624	12/01/02 04:37 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	12/01/02 04:37 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	12/01/02 04:37 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	12/01/02 04:37 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	12/01/02 04:37 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	12/01/02 04:37 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	12/01/02 04:37 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	12/01/02 04:37 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	12/01/02 04:37 / sbd
cis-1,2-Dichloroethene	2.0	ug/L		0.50		E624	12/01/02 04:37 / sbd
trans-1,2-Dichloroethene	0.17	ug/L	J	0.50		E624	12/01/02 04:37 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	12/01/02 04:37 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	12/01/02 04:37 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	12/01/02 04:37 / sbd
Methylene chloride	ND	ug/L		0.50		E624	12/01/02 04:37 / sbd
Tetrachloroethene	1.3	ug/L		0.50		E624	12/01/02 04:37 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	12/01/02 04:37 / sbd
Trichloroethene	3.7	ug/L		0.50		E624	12/01/02 04:37 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	12/01/02 04:37 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	12/01/02 04:37 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	12/01/02 04:37 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	12/01/02 04:37 / sbd
Surr: 1,2-Dichloroethane-d4	104	%REC			74-127	E624	12/01/02 04:37 / sbd
Surr: p-Bromofluorobenzene	126	%REC	S		80-120	E624	12/01/02 04:37 / sbd
Surr: Toluene-d8	109	%REC			80-120	E624	12/01/02 04:37 / sbd

Report Definitions:

RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

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800-735-4489 • 406-252-6325 • 406-252-6069 fax • eli@energylab.com

QA/QC Summary Report

Client: Envirocon Inc
Project: BNSF Livingston

Report Date: 12/03/02
Work Order: B02110925

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R18246
Sample ID: LCS113002	Laboratory Control Spike								11/30/02 16:51
Bromodichloromethane	4.72	ug/L	0.500	94.4	35	155			
Bromoform	4.64	ug/L	0.500	92.8	45	169			
Bromomethane	4.32	ug/L	0.500	86.4	10	242			
Carbon tetrachloride	4.20	ug/L	0.500	84	70	140			
Chlorobenzene	4.76	ug/L	0.500	95.2	37	160			
Chlorodibromomethane	4.96	ug/L	0.500	99.2	53	149			
Chloroethane	4.16	ug/L	0.500	83.2	14	230			
2-Chloroethyl vinyl ether	4.60	ug/L	1.00	92	10	305			
Chloroform	4.72	ug/L	0.500	94.4	51	138			
Chloromethane	4.24	ug/L	0.500	84.8	10	273			
2-Chlorotoluene	4.56	ug/L	0.500	91.2	60	140			
1,2-Dichlorobenzene	4.96	ug/L	0.500	99.2	18	190			
1,3-Dichlorobenzene	4.68	ug/L	0.500	93.6	59	156			
1,4-Dichlorobenzene	4.88	ug/L	0.500	97.6	18	190			
Dichlorodifluoromethane	3.18	ug/L	0.500	63.6	60	140			
1,1-Dichloroethane	4.88	ug/L	0.500	97.6	59	155			
1,2-Dichloroethane	5.08	ug/L	0.500	102	49	155			
1,1-Dichloroethene	4.80	ug/L	0.500	96	10	134			
cis-1,2-Dichloroethene	4.92	ug/L	0.500	98.4	60	140			
trans-1,2-Dichloroethene	5.64	ug/L	0.500	113	54	156			
1,2-Dichloropropane	4.88	ug/L	0.500	97.6	10	210			
cis-1,3-Dichloropropene	5.08	ug/L	0.500	102	10	227			
trans-1,3-Dichloropropene	5.36	ug/L	0.500	107	17	183			
Methylene chloride	5.16	ug/L	0.500	103	10	221			
Tetrachloroethene	5.00	ug/L	0.500	100	64	148			
1,1,2,2-Tetrachloroethane	4.76	ug/L	0.500	95.2	46	157			
Trichloroethene	5.00	ug/L	0.500	100	71	157			
1,1,1-Trichloroethane	4.68	ug/L	0.500	93.6	52	162			
1,1,2-Trichloroethane	4.80	ug/L	0.500	96	52	150			
Trichlorofluoromethane	4.00	ug/L	0.500	80	17	181			
Vinyl chloride	4.12	ug/L	0.500	82.4	10	251			
Surr: 1,2-Dichloroethane-d4			0.500	108	74	127			
Surr: p-Bromofluorobenzene			0.500	106	80	120			
Surr: Toluene-d8			0.500	106	80	120			
Sample ID: MBLK113002	Method Blank								11/30/02 17:25
Bromodichloromethane	ND	ug/L	0.500						
Bromoform	ND	ug/L	0.500						
Bromomethane	ND	ug/L	0.500						
Carbon tetrachloride	ND	ug/L	0.500						
Chlorobenzene	ND	ug/L	0.500						
Chlorodibromomethane	ND	ug/L	0.500						
Chloroethane	ND	ug/L	0.500						

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside of recommended recovery limits
R - RPD outside of recommended recovery limits

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QA/QC Summary Report

Client: Envirocon Inc
Project: BNSF Livingston

Report Date: 12/03/02
Work Order: B02110925

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R18246
Sample ID: MBLK113002	Method Blank								11/30/02 17:25
2-Chloroethyl vinyl ether	ND	ug/L	1.00						
Chloroform	ND	ug/L	0.500						
Chloromethane	ND	ug/L	0.500						
2-Chlorotoluene	ND	ug/L	0.500						
1,2-Dichlorobenzene	ND	ug/L	0.500						
1,3-Dichlorobenzene	ND	ug/L	0.500						
1,4-Dichlorobenzene	ND	ug/L	0.500						
Dichlorodifluoromethane	ND	ug/L	0.500						
1,1-Dichloroethane	ND	ug/L	0.500						
1,2-Dichloroethane	ND	ug/L	0.500						
1,1-Dichloroethene	ND	ug/L	0.500						
cis-1,2-Dichloroethene	ND	ug/L	0.500						
trans-1,2-Dichloroethene	ND	ug/L	0.500						
1,2-Dichloropropane	ND	ug/L	0.500						
cis-1,3-Dichloropropene	ND	ug/L	0.500						
trans-1,3-Dichloropropene	ND	ug/L	0.500						
Methylene chloride	ND	ug/L	0.500						
Tetrachloroethene	ND	ug/L	0.500						
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500						
Trichloroethene	ND	ug/L	0.500						
1,1,1-Trichloroethane	ND	ug/L	0.500						
1,1,2-Trichloroethane	ND	ug/L	0.500						
Trichlorofluoromethane	ND	ug/L	0.500						
Vinyl chloride	ND	ug/L	0.500						
Surr: 1,2-Dichloroethane-d4			0.500	101	74	127			
Surr: p-Bromofluorobenzene			0.500	106	80	120			
Surr: Toluene-d8			0.500	101	80	120			
Sample ID: LCSa113002	Laboratory Control Spike								12/01/02 03:30
Bromodichloromethane	5.00	ug/L	0.500	100	35	155			
Bromoform	4.88	ug/L	0.500	97.6	45	169			
Bromomethane	4.44	ug/L	0.500	88.8	10	242			
Carbon tetrachloride	4.60	ug/L	0.500	92	70	140			
Chlorobenzene	4.96	ug/L	0.500	99.2	37	160			
Chlorodibromomethane	5.12	ug/L	0.500	102	53	149			
Chloroethane	4.40	ug/L	0.500	88	14	230			
2-Chloroethyl vinyl ether	5.08	ug/L	1.00	102	10	305			
Chloroform	5.00	ug/L	0.500	100	51	138			
Chloromethane	4.40	ug/L	0.500	88	10	273			
2-Chlorotoluene	4.88	ug/L	0.500	97.6	60	140			
1,2-Dichlorobenzene	5.04	ug/L	0.500	101	18	190			
1,3-Dichlorobenzene	4.72	ug/L	0.500	94.4	59	156			
1,4-Dichlorobenzene	4.96	ug/L	0.500	99.2	18	190			

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside of recommended recovery limits
R - RPD outside of recommended recovery limits

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QA/QC Summary Report

Client: Envirocon Inc
Project: BNSF Livingston

Report Date: 12/03/02
Work Order: B02110925

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R18246
Sample ID: LCSa113002	Laboratory Control Spike								12/01/02 03:30
Dichlorodifluoromethane	3.28	ug/L	0.500	65.7	60	140			
1,1-Dichloroethane	4.24	ug/L	0.500	84.8	59	155			
1,2-Dichloroethane	5.56	ug/L	0.500	111	49	155			
1,1-Dichloroethene	5.16	ug/L	0.500	103	10	134			
cis-1,2-Dichloroethene	5.28	ug/L	0.500	106	60	140			
trans-1,2-Dichloroethene	5.60	ug/L	0.500	112	54	156			
1,2-Dichloropropane	5.12	ug/L	0.500	102	10	210			
cis-1,3-Dichloropropene	5.12	ug/L	0.500	102	10	227			
trans-1,3-Dichloropropene	5.56	ug/L	0.500	111	17	183			
Methylene chloride	5.00	ug/L	0.500	100	10	221			
Tetrachloroethene	5.00	ug/L	0.500	100	64	148			
1,1,2,2-Tetrachloroethane	4.92	ug/L	0.500	98.4	46	157			
Trichloroethene	4.88	ug/L	0.500	97.6	71	157			
1,1,1-Trichloroethane	4.24	ug/L	0.500	84.8	52	162			
1,1,2-Trichloroethane	5.00	ug/L	0.500	100	52	150			
Trichlorofluoromethane	4.24	ug/L	0.500	84.8	17	181			
Vinyl chloride	4.28	ug/L	0.500	85.6	10	251			
Surr: 1,2-Dichloroethane-d4			0.500	106	74	127			
Surr: p-Bromofluorobenzene			0.500	106	80	120			
Surr: Toluene-d8			0.500	107	80	120			
Sample ID: MBLKa113002	Method Blank								12/01/02 04:03
Bromodichloromethane	ND	ug/L	0.500						
Bromoform	ND	ug/L	0.500						
Bromomethane	ND	ug/L	0.500						
Carbon tetrachloride	ND	ug/L	0.500						
Chlorobenzene	ND	ug/L	0.500						
Chlorodibromomethane	ND	ug/L	0.500						
Chloroethane	ND	ug/L	0.500						
2-Chloroethyl vinyl ether	ND	ug/L	1.00						
Chloroform	ND	ug/L	0.500						
Chloromethane	ND	ug/L	0.500						
2-Chlorotoluene	ND	ug/L	0.500						
1,2-Dichlorobenzene	ND	ug/L	0.500						
1,3-Dichlorobenzene	ND	ug/L	0.500						
1,4-Dichlorobenzene	ND	ug/L	0.500						
Dichlorodifluoromethane	ND	ug/L	0.500						
1,1-Dichloroethane	ND	ug/L	0.500						
1,2-Dichloroethane	ND	ug/L	0.500						
1,1-Dichloroethene	ND	ug/L	0.500						
cis-1,2-Dichloroethene	ND	ug/L	0.500						
trans-1,2-Dichloroethene	ND	ug/L	0.500						
1,2-Dichloropropane	ND	ug/L	0.500						

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside of recommended recovery limits
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QA/QC Summary Report

Client: Envirocon Inc
Project: BNSF Livingston

Report Date: 12/03/02
Work Order: B02110925

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R18246
Sample ID: MBLKa113002	Method Blank								12/01/02 04:03
cis-1,3-Dichloropropene	ND	ug/L	0.500						
trans-1,3-Dichloropropene	ND	ug/L	0.500						
Methylene chloride	ND	ug/L	0.500						
Tetrachloroethene	ND	ug/L	0.500						
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500						
Trichloroethene	ND	ug/L	0.500						
1,1,1-Trichloroethane	ND	ug/L	0.500						
1,1,2-Trichloroethane	ND	ug/L	0.500						
Trichlorofluoromethane	ND	ug/L	0.500						
Vinyl chloride	ND	ug/L	0.500						
Surr: 1,2-Dichloroethane-d4			0.500	99.2	74	127			
Surr: p-Bromofluorobenzene			0.500	102	80	120			
Surr: Toluene-d8			0.500	104	80	120			
Sample ID: B02110925-001AMS	Sample Matrix Spike								12/01/02 12:13
Bromodichloromethane	5.00	ug/L	0.500	100	35	155			
Bromoform	4.84	ug/L	0.500	96.8	45	169			
Bromomethane	4.32	ug/L	0.500	86.4	10	242			
Carbon tetrachloride	4.80	ug/L	0.500	96	70	140			
Chlorobenzene	5.04	ug/L	0.500	101	37	160			
Chlorodibromomethane	4.88	ug/L	0.500	97.6	53	149			
Chloroethane	4.80	ug/L	0.500	96	14	230			
2-Chloroethyl vinyl ether	ND	ug/L	1.00	0	10	305			S
Chloroform	4.84	ug/L	0.500	96.8	51	138			
Chloromethane	4.96	ug/L	0.500	99.2	10	273			
2-Chlorotoluene	4.92	ug/L	0.500	98.4	60	140			
1,2-Dichlorobenzene	5.04	ug/L	0.500	101	18	190			
1,3-Dichlorobenzene	5.00	ug/L	0.500	100	59	156			
1,4-Dichlorobenzene	5.00	ug/L	0.500	100	18	190			
Dichlorodifluoromethane	3.23	ug/L	0.500	64.6	60	140			
1,1-Dichloroethane	4.92	ug/L	0.500	98.4	59	155			
1,2-Dichloroethane	5.40	ug/L	0.500	108	49	155			
1,1-Dichloroethene	5.00	ug/L	0.500	100	10	134			
cis-1,2-Dichloroethene	5.36	ug/L	0.500	107	60	140			
trans-1,2-Dichloroethene	5.44	ug/L	0.500	109	54	156			
1,2-Dichloropropane	5.28	ug/L	0.500	106	10	210			
cis-1,3-Dichloropropene	5.36	ug/L	0.500	107	10	227			
trans-1,3-Dichloropropene	5.60	ug/L	0.500	112	17	183			
Methylene chloride	5.28	ug/L	0.500	106	10	221			
Tetrachloroethene	6.60	ug/L	0.500	105	64	148			
1,1,2,2-Tetrachloroethane	5.04	ug/L	0.500	101	46	157			
Trichloroethene	4.96	ug/L	0.500	99.2	71	157			
1,1,1-Trichloroethane	4.72	ug/L	0.500	94.4	52	162			

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside of recommended recovery limits
R - RPD outside of recommended recovery limits

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QA/QC Summary Report

Client: Envirocon Inc
Project: BNSF Livingston

Report Date: 12/03/02
Work Order: B02110925

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R18246
Sample ID: B02110925-001AMS	Sample Matrix Spike								12/01/02 12:13
1,1,2-Trichloroethane	4.96	ug/L	0.500	99.2	52	150			
Trichlorofluoromethane	4.48	ug/L	0.500	89.6	17	181			
Vinyl chloride	4.88	ug/L	0.500	97.6	10	251			
Surr: 1,2-Dichloroethane-d4			0.500	101	74	127			
Surr: p-Bromofluorobenzene			0.500	107	80	120			
Surr: Toluene-d8			0.500	108	80	120			
Sample ID: LCSb113002	Laboratory Control Spike								12/01/02 14:27
Bromodichloromethane	4.84	ug/L	0.500	96.8	35	155			
Bromoform	4.56	ug/L	0.500	91.2	45	169			
Bromomethane	4.64	ug/L	0.500	92.8	10	242			
Carbon tetrachloride	4.56	ug/L	0.500	91.2	70	140			
Chlorobenzene	4.80	ug/L	0.500	96	37	160			
Chlorodibromomethane	4.80	ug/L	0.500	96	53	149			
Chloroethane	4.68	ug/L	0.500	93.6	14	230			
2-Chloroethyl vinyl ether	4.84	ug/L	1.00	96.8	10	305			
Chloroform	4.64	ug/L	0.500	92.8	51	138			
Chloromethane	4.48	ug/L	0.500	89.6	10	273			
2-Chlorotoluene	4.72	ug/L	0.500	94.4	60	140			
1,2-Dichlorobenzene	4.68	ug/L	0.500	93.6	18	190			
1,3-Dichlorobenzene	4.64	ug/L	0.500	92.8	59	156			
1,4-Dichlorobenzene	4.80	ug/L	0.500	96	18	190			
Dichlorodifluoromethane	3.34	ug/L	0.500	66.7	60	140			
1,1-Dichloroethane	4.72	ug/L	0.500	94.4	59	155			
1,2-Dichloroethane	5.20	ug/L	0.500	104	49	155			
1,1-Dichloroethene	4.76	ug/L	0.500	95.2	10	134			
cis-1,2-Dichloroethene	5.12	ug/L	0.500	102	60	140			
trans-1,2-Dichloroethene	5.40	ug/L	0.500	108	54	156			
1,2-Dichloropropane	4.92	ug/L	0.500	98.4	10	210			
cis-1,3-Dichloropropene	5.12	ug/L	0.500	102	10	227			
trans-1,3-Dichloropropene	5.28	ug/L	0.500	106	17	183			
Methylene chloride	5.28	ug/L	0.500	106	10	221			
Tetrachloroethene	4.88	ug/L	0.500	97.6	64	148			
1,1,2,2-Tetrachloroethane	4.80	ug/L	0.500	96	46	157			
Trichloroethene	4.68	ug/L	0.500	93.6	71	157			
1,1,1-Trichloroethane	4.56	ug/L	0.500	91.2	52	162			
1,1,2-Trichloroethane	4.88	ug/L	0.500	97.6	52	150			
Trichlorofluoromethane	4.68	ug/L	0.500	93.6	17	181			
Vinyl chloride	4.64	ug/L	0.500	92.8	10	251			
Surr: 1,2-Dichloroethane-d4			0.500	104	74	127			
Surr: p-Bromofluorobenzene			0.500	105	80	120			
Surr: Toluene-d8			0.500	108	80	120			

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside of recommended recovery limits
R - RPD outside of recommended recovery limits

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QA/QC Summary Report

Client: Envirocon Inc
Project: BNSF Livingston

Report Date: 12/03/02
Work Order: B02110925

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R18246
Sample ID: MBLKb113002	Method Blank								12/01/02 15:00
Bromodichloromethane	ND	ug/L	0.500						
Bromoform	ND	ug/L	0.500						
Bromomethane	ND	ug/L	0.500						
Carbon tetrachloride	ND	ug/L	0.500						
Chlorobenzene	ND	ug/L	0.500						
Chlorodibromomethane	ND	ug/L	0.500						
Chloroethane	ND	ug/L	0.500						
2-Chloroethyl vinyl ether	ND	ug/L	1.00						
Chloroform	ND	ug/L	0.500						
Chloromethane	ND	ug/L	0.500						
2-Chlorotoluene	ND	ug/L	0.500						
1,2-Dichlorobenzene	ND	ug/L	0.500						
1,3-Dichlorobenzene	ND	ug/L	0.500						
1,4-Dichlorobenzene	ND	ug/L	0.500						
Dichlorodifluoromethane	ND	ug/L	0.500						
1,1-Dichloroethane	ND	ug/L	0.500						
1,2-Dichloroethane	ND	ug/L	0.500						
1,1-Dichloroethene	ND	ug/L	0.500						
cis-1,2-Dichloroethene	ND	ug/L	0.500						
trans-1,2-Dichloroethene	ND	ug/L	0.500						
1,2-Dichloropropane	ND	ug/L	0.500						
cis-1,3-Dichloropropene	ND	ug/L	0.500						
trans-1,3-Dichloropropene	ND	ug/L	0.500						
Methylene chloride	ND	ug/L	0.500						
Tetrachloroethene	ND	ug/L	0.500						
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500						
Trichloroethene	ND	ug/L	0.500						
1,1,1-Trichloroethane	ND	ug/L	0.500						
1,1,2-Trichloroethane	ND	ug/L	0.500						
Trichlorofluoromethane	ND	ug/L	0.500						
Vinyl chloride	ND	ug/L	0.500						
Surr: 1,2-Dichloroethane-d4			0.500	101	74	127			
Surr: p-Bromofluorobenzene			0.500	107	80	120			
Surr: Toluene-d8			0.500	106	80	120			

Qualifiers: ND - Not Detected at the Reporting Limit
R - RPD outside of recommended recovery limits
S - Spike Recovery outside of recommended recovery limits

Energy Laboratories Inc

Sample Receipt Checklist

Client Name **ENVRCN-INC** Date and Time Received: **11/20/2002**

Work Order Number **B02110925** Received by rln

Checklist completed b _____ 11/20/02 Reviewed by _____

Signature | Date | Initials | Date

Carrier name Bus

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	4 °C
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments:

Corrective Action _____

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ANALYTICAL SUMMARY REPORT

December 05, 2002

Dan McCaffery
Envirocon Inc
PO Box 16655
Missoula, MT 59808

Workorder No.: B02110925 Quote ID: B285

Project Name: BNSF Livingston

Energy Laboratories Inc received the following 14 samples from Envirocon Inc on 11/20/2002 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B02110925-001	1829	11/18/02 14:45	11/20/02	Aqueous	624-Purgeable Organics
B02110925-002	1830	11/18/02 15:23	11/20/02	Aqueous	Same As Above
B02110925-003	1831	11/18/02 16:24	11/20/02	Aqueous	Same As Above
B02110925-004	1832	11/18/02 16:55	11/20/02	Aqueous	Same As Above
B02110925-005	1833	11/19/02 9:30	11/20/02	Aqueous	Same As Above
B02110925-006	1834	11/19/02 9:35	11/20/02	Aqueous	Same As Above
B02110925-007	1835	11/19/02 10:18	11/20/02	Aqueous	Same As Above
B02110925-008	1836	11/19/02 10:25	11/20/02	Aqueous	Same As Above
B02110925-009	1837	11/19/02 10:52	11/20/02	Aqueous	Same As Above
B02110925-010	1838	11/19/02 11:40	11/20/02	Aqueous	Same As Above
B02110925-011	1839	11/19/02 13:30	11/20/02	Aqueous	Same As Above
B02110925-012	1840	11/19/02 14:15	11/20/02	Aqueous	Same As Above
B02110925-013	1841	11/19/02 14:46	11/20/02	Aqueous	Same As Above
B02110925-014	1842	11/19/02 15:25	11/20/02	Aqueous	Same As Above

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except if noted in report comments or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: _____

Wynn Pippin
Project Manager

ENERGY LABORATORIES

CHAIN OF CUSTODY RECORD

PLEASE PRINT OR TYPE ALL INFORMATION EXCEPT SIGNATURES

Received Date: 11/20/02 — Cust. No.: ____
Login Date: 1 — Custody Seal: Yes/No
Shipped by: Bus — Intact: Yes/No
Shipping Bill #: ____ — Signature Match?: Yes/No
Code Six: ____ — If no - Reason:

For Lab Use Only 4°C

BILLINGS, MT
P.O. Box 30916 (59107) watts 800-735-4489
1120 South 27th (59101) Voice 406-252-6325
Fax 406-252-6069

CASPER, WY
P.O. Box 3258 (82602) watts 888-235-0515
2393 Salt Creek Highway (82601) voice 307-235-0515
Fax 307-234-1639

GILLETTE, WY
1105 West First Street (82716) voice 307-686-7175
Fax 307-682-4625

HELENA, MT
P.O. Box 5688 (59604)
2704 Billings Ave. (59601) Voice/Fax 406-442-0711

RAPID CITY, SD
P.O. Box 2470 (57709) watts 888-672-1225
610 Farnwood (57701) voice 605-342-1225
Fax 605-342-1397

P.O. # —

Project Name / Address: BNSF - Livingston

Contact Name & Phone: Dan McCaffery 406 523-1186

Sampler's Signature: Dan McCaffery

Invoice to: Envirocon, PO 16655, Missoula, MT 59808

Report to: (same) attn: Dan McCaffery

number of containers
Sample Type: A Air W Water S Soils/Solids V Vegetation U Urine O Other

Analysis Requested: 601 VOCs

Lab No. (For Lab Use Only)	DATE	TIME	SAMPLE I.D.	number of containers	Sample Type	601 VOCs	Comments, Special Instructions, etc.
B02110925-011	11/19/02	1330	1839	4 (2)	A W	X	
012		2150	1840				
013		2460	1841				
014		3250	1842				

1. Relinquished (signature)	Date	Time	Received by: (signature)	2. Relinquished (signature)	Date	Time	Received for Laboratory by: (signature)
Dan McCaffery	11/19/02	930			11/20/02	0700	Sandra Lau

ENERGY LABORATORIES

CHAIN OF CUSTODY RECORD

PLEASE PRINT OR TYPE ALL INFORMATION EXCEPT SIGNATURES

Received Date: 11/20/02 Cust. No.:
Login Date: L Custody Seal: Yes/No
Shipped by: Bus Intact: Yes/No
Shipping Bill #: Signature Match?: Yes/No
Code Six: If no - Reason:

For Lab Use Only 4

BILLINGS, MT
P.O. Box 30916 (59107) watts 800-735-4489
1120 South 27th (59101) voice 406-252-6325
Fax 406-252-6069

CASPER, WY
P.O. Box 3258 (82602) watts 888-235-0515
2393 Salt Creek Highway (82601) voice 307-235-0515
Fax 307-234-1639

GILLETTE, WY
1105 West First Street (82716) voice 307-686-7175
Fax 307-682-4625

HELENA, MT
P.O. Box 5688 (59604)
2704 Billings Ave. (59601) Voice/Fax 406-442-0711

RAPID CITY, SD
P.O. Box 2470 (57709) watts 888 672-1225
610 Fairwood (57701) voice 605-342-1225
Fax 605-342-1397

P.O. #: —

Project Name / Address: BNSF - Livingston

Contact Name & Phone: Dan McCaffery 406 523-1186

Sampler's Signature: Dan McCaffery

Invoice to: Enviroson PO 16655 Missoula, MT 59808

Report to: (name) attn: Dan McCaffery

Lab No. (For Lab Use Only)	DATE	TIME	SAMPLE I.D.	number of containers / Sample Type: Air Water Soils/Solids Vegetation Urine Other	Analysis Requested: 601 VOCs	Comments, Special Instructions, etc.
B02110925-001	11/18/02	245	1829	A Ψ (2) B	X	
002		323	1830			
003		424	1831			
004		455	1832			
005	11/19/02	930	1833			
006		935	1834			
007		1018	1835			
008		1025	1836			
009		1052	1837			
010		1140	1838			

1. Relinquished (signature)	Date	Time	Received by: (signature)	2. Relinquished (signature)	Date	Time	Received for Laboratory by: (signature)
Dan McCaffery	11/19/02	930			11/20/02	0700	Sandra Lees

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: BNSF Livingston
Lab ID: B02111053-001
Client Sample ID: 1843

89-1

Report Date: 12/03/02
Collection Date: 11/20/02 09:55
Date Received: 11/21/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	12/01/02 18:56 / sbd
Bromoform	ND	ug/L		0.50		E624	12/01/02 18:56 / sbd
Bromomethane	ND	ug/L		0.50		E624	12/01/02 18:56 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	12/01/02 18:56 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	12/01/02 18:56 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	12/01/02 18:56 / sbd
Chloroethane	ND	ug/L		0.50		E624	12/01/02 18:56 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	12/01/02 18:56 / sbd
Chloroform	ND	ug/L		0.50		E624	12/01/02 18:56 / sbd
Chloromethane	ND	ug/L		0.50		E624	12/01/02 18:56 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	12/01/02 18:56 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	12/01/02 18:56 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	12/01/02 18:56 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	12/01/02 18:56 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	12/01/02 18:56 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	12/01/02 18:56 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	12/01/02 18:56 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	12/01/02 18:56 / sbd
cis-1,2-Dichloroethene	ND	ug/L		0.50		E624	12/01/02 18:56 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	12/01/02 18:56 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	12/01/02 18:56 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	12/01/02 18:56 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	12/01/02 18:56 / sbd
Methylene chloride	ND	ug/L		0.50		E624	12/01/02 18:56 / sbd
Tetrachloroethene	0.42	ug/L	J	0.50		E624	12/01/02 18:56 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	12/01/02 18:56 / sbd
Trichloroethene	ND	ug/L		0.50		E624	12/01/02 18:56 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	12/01/02 18:56 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	12/01/02 18:56 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	12/01/02 18:56 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	12/01/02 18:56 / sbd
Surr: 1,2-Dichloroethane-d4	102	%REC			74-127	E624	12/01/02 18:56 / sbd
Surr: p-Bromofluorobenzene	106	%REC			80-120	E624	12/01/02 18:56 / sbd
Surr: Toluene-d8	105	%REC			80-120	E624	12/01/02 18:56 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: BNSF Livingston
Lab ID: B02111053-002
Client Sample ID: 1844

L-87-5

Report Date: 12/03/02
Collection Date: 11/20/02 10:30
Date Received: 11/21/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	12/01/02 19:29 / sbd
Bromoform	ND	ug/L		0.50		E624	12/01/02 19:29 / sbd
Bromomethane	ND	ug/L		0.50		E624	12/01/02 19:29 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	12/01/02 19:29 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	12/01/02 19:29 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	12/01/02 19:29 / sbd
Chloroethane	ND	ug/L		0.50		E624	12/01/02 19:29 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	12/01/02 19:29 / sbd
Chloroform	ND	ug/L		0.50		E624	12/01/02 19:29 / sbd
Chloromethane	ND	ug/L		0.50		E624	12/01/02 19:29 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	12/01/02 19:29 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	12/01/02 19:29 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	12/01/02 19:29 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	12/01/02 19:29 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	12/01/02 19:29 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	12/01/02 19:29 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	12/01/02 19:29 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	12/01/02 19:29 / sbd
cis-1,2-Dichloroethene	1.4	ug/L		0.50		E624	12/01/02 19:29 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	12/01/02 19:29 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	12/01/02 19:29 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	12/01/02 19:29 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	12/01/02 19:29 / sbd
Methylene chloride	ND	ug/L		0.50		E624	12/01/02 19:29 / sbd
Tetrachloroethene	36	ug/L		5.0		E624	12/02/02 14:08 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	12/01/02 19:29 / sbd
Trichloroethene	2.2	ug/L		0.50		E624	12/01/02 19:29 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	12/01/02 19:29 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	12/01/02 19:29 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	12/01/02 19:29 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	12/01/02 19:29 / sbd
Surr: 1,2-Dichloroethane-d4	103	%REC			74-127	E624	12/01/02 19:29 / sbd
Surr: p-Bromofluorobenzene	108	%REC			80-120	E624	12/01/02 19:29 / sbd
Surr: Toluene-d8	106	%REC			80-120	E624	12/01/02 19:29 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: BNSF Livingston
Lab ID: B02111053-003
Client Sample ID: 1845

MW-12

Report Date: 12/03/02
Collection Date: 11/20/02 11:30
Date Received: 11/21/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	12/01/02 20:03 / sbd
Bromoform	ND	ug/L		0.50		E624	12/01/02 20:03 / sbd
Bromomethane	ND	ug/L		0.50		E624	12/01/02 20:03 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	12/01/02 20:03 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	12/01/02 20:03 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	12/01/02 20:03 / sbd
Chloroethane	ND	ug/L		0.50		E624	12/01/02 20:03 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	12/01/02 20:03 / sbd
Chloroform	ND	ug/L		0.50		E624	12/01/02 20:03 / sbd
Chloromethane	ND	ug/L		0.50		E624	12/01/02 20:03 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	12/01/02 20:03 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	12/01/02 20:03 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	12/01/02 20:03 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	12/01/02 20:03 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	12/01/02 20:03 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	12/01/02 20:03 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	12/01/02 20:03 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	12/01/02 20:03 / sbd
cis-1,2-Dichloroethene	ND	ug/L		0.50		E624	12/01/02 20:03 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	12/01/02 20:03 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	12/01/02 20:03 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	12/01/02 20:03 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	12/01/02 20:03 / sbd
Methylene chloride	ND	ug/L		0.50		E624	12/01/02 20:03 / sbd
Tetrachloroethene	2.7	ug/L		0.50		E624	12/01/02 20:03 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	12/01/02 20:03 / sbd
Trichloroethene	ND	ug/L		0.50		E624	12/01/02 20:03 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	12/01/02 20:03 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	12/01/02 20:03 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	12/01/02 20:03 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	12/01/02 20:03 / sbd
Surr: 1,2-Dichloroethane-d4	104	%REC			74-127	E624	12/01/02 20:03 / sbd
Surr: p-Bromofluorobenzene	107	%REC			80-120	E624	12/01/02 20:03 / sbd
Surr: Toluene-d8	106	%REC			80-120	E624	12/01/02 20:03 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Envirocon Inc
Project: BNSF Livingston
Lab ID: B02111053-004
Client Sample ID: 1846

MW-12 dupl.

Report Date: 12/03/02
Collection Date: 11/20/02 11:40
Date Received: 11/21/02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	12/01/02 20:36 / sbd
Bromoform	ND	ug/L		0.50		E624	12/01/02 20:36 / sbd
Bromomethane	ND	ug/L		0.50		E624	12/01/02 20:36 / sbd
Carbon tetrachloride	ND	ug/L		0.50		E624	12/01/02 20:36 / sbd
Chlorobenzene	ND	ug/L		0.50		E624	12/01/02 20:36 / sbd
Chlorodibromomethane	ND	ug/L		0.50		E624	12/01/02 20:36 / sbd
Chloroethane	ND	ug/L		0.50		E624	12/01/02 20:36 / sbd
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	12/01/02 20:36 / sbd
Chloroform	ND	ug/L		0.50		E624	12/01/02 20:36 / sbd
Chloromethane	ND	ug/L		0.50		E624	12/01/02 20:36 / sbd
2-Chlorotoluene	ND	ug/L		0.50		E624	12/01/02 20:36 / sbd
1,2-Dichlorobenzene	ND	ug/L		0.50		E624	12/01/02 20:36 / sbd
1,3-Dichlorobenzene	ND	ug/L		0.50		E624	12/01/02 20:36 / sbd
1,4-Dichlorobenzene	ND	ug/L		0.50		E624	12/01/02 20:36 / sbd
Dichlorodifluoromethane	ND	ug/L		0.50		E624	12/01/02 20:36 / sbd
1,1-Dichloroethane	ND	ug/L		0.50		E624	12/01/02 20:36 / sbd
1,2-Dichloroethane	ND	ug/L		0.50		E624	12/01/02 20:36 / sbd
1,1-Dichloroethene	ND	ug/L		0.50		E624	12/01/02 20:36 / sbd
cis-1,2-Dichloroethene	ND	ug/L		0.50		E624	12/01/02 20:36 / sbd
trans-1,2-Dichloroethene	ND	ug/L		0.50		E624	12/01/02 20:36 / sbd
1,2-Dichloropropane	ND	ug/L		0.50		E624	12/01/02 20:36 / sbd
cis-1,3-Dichloropropene	ND	ug/L		0.50		E624	12/01/02 20:36 / sbd
trans-1,3-Dichloropropene	ND	ug/L		0.50		E624	12/01/02 20:36 / sbd
Methylene chloride	ND	ug/L		0.50		E624	12/01/02 20:36 / sbd
Tetrachloroethene	2.8	ug/L		0.50		E624	12/01/02 20:36 / sbd
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E624	12/01/02 20:36 / sbd
Trichloroethene	ND	ug/L		0.50		E624	12/01/02 20:36 / sbd
1,1,1-Trichloroethane	ND	ug/L		0.50		E624	12/01/02 20:36 / sbd
1,1,2-Trichloroethane	ND	ug/L		0.50		E624	12/01/02 20:36 / sbd
Trichlorofluoromethane	ND	ug/L		0.50		E624	12/01/02 20:36 / sbd
Vinyl chloride	ND	ug/L		0.50		E624	12/01/02 20:36 / sbd
Surr: 1,2-Dichloroethane-d4	105	%REC			74-127	E624	12/01/02 20:36 / sbd
Surr: p-Bromofluorobenzene	110	%REC			80-120	E624	12/01/02 20:36 / sbd
Surr: Toluene-d8	104	%REC			80-120	E624	12/01/02 20:36 / sbd

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: Envirocon Inc
Project: BNSF Livingston

Report Date: 12/03/02
Work Order: B02111053

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R18246b
Sample ID: B02110925-001AMS	Sample Matrix Spike								12/01/02 12:13
Bromodichloromethane	5.00	ug/L	0.500	100	35	155			
Bromoform	4.84	ug/L	0.500	96.8	45	169			
Bromomethane	4.32	ug/L	0.500	86.4	10	242			
Carbon tetrachloride	4.80	ug/L	0.500	96	70	140			
Chlorobenzene	5.04	ug/L	0.500	101	37	160			
Chlorodibromomethane	4.88	ug/L	0.500	97.6	53	149			
Chloroethane	4.80	ug/L	0.500	96	14	230			
2-Chloroethyl vinyl ether	ND	ug/L	1.00	0	10	305			S
Chloroform	4.84	ug/L	0.500	96.8	51	138			
Chloromethane	4.96	ug/L	0.500	99.2	10	273			
2-Chlorotoluene	4.92	ug/L	0.500	98.4	60	140			
1,2-Dichlorobenzene	5.04	ug/L	0.500	101	18	190			
1,3-Dichlorobenzene	5.00	ug/L	0.500	100	59	156			
1,4-Dichlorobenzene	5.00	ug/L	0.500	100	18	190			
Dichlorodifluoromethane	3.23	ug/L	0.500	64.6	60	140			
1,1-Dichloroethane	4.92	ug/L	0.500	98.4	59	155			
1,2-Dichloroethane	5.40	ug/L	0.500	108	49	155			
1,1-Dichloroethene	5.00	ug/L	0.500	100	10	134			
cis-1,2-Dichloroethene	5.36	ug/L	0.500	107	60	140			
trans-1,2-Dichloroethene	5.44	ug/L	0.500	109	54	156			
1,2-Dichloropropane	5.28	ug/L	0.500	106	10	210			
cis-1,3-Dichloropropene	5.36	ug/L	0.500	107	10	227			
trans-1,3-Dichloropropene	5.60	ug/L	0.500	112	17	183			
Methylene chloride	5.28	ug/L	0.500	106	10	221			
Tetrachloroethene	6.60	ug/L	0.500	105	64	148			
1,1,2,2-Tetrachloroethane	5.04	ug/L	0.500	101	46	157			
Trichloroethene	4.96	ug/L	0.500	99.2	71	157			
1,1,1-Trichloroethane	4.72	ug/L	0.500	94.4	52	162			
1,1,2-Trichloroethane	4.96	ug/L	0.500	99.2	52	150			
Trichlorofluoromethane	4.48	ug/L	0.500	89.6	17	181			
Vinyl chloride	4.88	ug/L	0.500	97.6	10	251			
Surr: 1,2-Dichloroethane-d4			0.500	101	74	127			
Surr: p-Bromofluorobenzene			0.500	107	80	120			
Surr: Toluene-d8			0.500	108	80	120			
Sample ID: LCSb113002	Laboratory Control Spike								12/01/02 14:27
Bromodichloromethane	4.84	ug/L	0.500	96.8	35	155			
Bromoform	4.56	ug/L	0.500	91.2	45	169			
Bromomethane	4.64	ug/L	0.500	92.8	10	242			
Carbon tetrachloride	4.56	ug/L	0.500	91.2	70	140			
Chlorobenzene	4.80	ug/L	0.500	96	37	160			
Chlorodibromomethane	4.80	ug/L	0.500	96	53	149			
Chloroethane	4.68	ug/L	0.500	93.6	14	230			

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside of recommended recovery limits
R - RPD outside of recommended recovery limits

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QA/QC Summary Report

Client: Envirocon Inc
Project: BNSF Livingston

Report Date: 12/03/02
Work Order: B02111053

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R18246b
Sample ID: LCSb113002	Laboratory Control Spike								12/01/02 14:27
2-Chloroethyl vinyl ether	4.84	ug/L	1.00	96.8	10	305			
Chloroform	4.64	ug/L	0.500	92.8	51	138			
Chloromethane	4.48	ug/L	0.500	89.6	10	273			
2-Chlorotoluene	4.72	ug/L	0.500	94.4	60	140			
1,2-Dichlorobenzene	4.68	ug/L	0.500	93.6	18	190			
1,3-Dichlorobenzene	4.64	ug/L	0.500	92.8	59	156			
1,4-Dichlorobenzene	4.80	ug/L	0.500	96	18	190			
Dichlorodifluoromethane	3.34	ug/L	0.500	66.7	60	140			
1,1-Dichloroethane	4.72	ug/L	0.500	94.4	59	155			
1,2-Dichloroethane	5.20	ug/L	0.500	104	49	155			
1,1-Dichloroethene	4.76	ug/L	0.500	95.2	10	134			
cis-1,2-Dichloroethene	5.12	ug/L	0.500	102	60	140			
trans-1,2-Dichloroethene	5.40	ug/L	0.500	108	54	156			
1,2-Dichloropropane	4.92	ug/L	0.500	98.4	10	210			
cis-1,3-Dichloropropene	5.12	ug/L	0.500	102	10	227			
trans-1,3-Dichloropropene	5.28	ug/L	0.500	106	17	183			
Methylene chloride	5.28	ug/L	0.500	106	10	221			
Tetrachloroethene	4.88	ug/L	0.500	97.6	64	148			
1,1,2,2-Tetrachloroethane	4.80	ug/L	0.500	96	46	157			
Trichloroethene	4.68	ug/L	0.500	93.6	71	157			
1,1,1-Trichloroethane	4.56	ug/L	0.500	91.2	52	162			
1,1,2-Trichloroethane	4.88	ug/L	0.500	97.6	52	150			
Trichlorofluoromethane	4.68	ug/L	0.500	93.6	17	181			
Vinyl chloride	4.64	ug/L	0.500	92.8	10	251			
Surr: 1,2-Dichloroethane-d4			0.500	104	74	127			
Surr: p-Bromofluorobenzene			0.500	105	80	120			
Surr: Toluene-d8			0.500	108	80	120			
Sample ID: MBLKb113002	Method Blank								12/01/02 15:00
Bromodichloromethane	ND	ug/L	0.500						
Bromoform	ND	ug/L	0.500						
Bromomethane	ND	ug/L	0.500						
Carbon tetrachloride	ND	ug/L	0.500						
Chlorobenzene	ND	ug/L	0.500						
Chlorodibromomethane	ND	ug/L	0.500						
Chloroethane	ND	ug/L	0.500						
2-Chloroethyl vinyl ether	ND	ug/L	1.00						
Chloroform	ND	ug/L	0.500						
Chloromethane	ND	ug/L	0.500						
2-Chlorotoluene	ND	ug/L	0.500						
1,2-Dichlorobenzene	ND	ug/L	0.500						
1,3-Dichlorobenzene	ND	ug/L	0.500						
1,4-Dichlorobenzene	ND	ug/L	0.500						

Qualifiers: ND - Not Detected at the Reporting Limit
R - RPD outside of recommended recovery limits
S - Spike Recovery outside of recommended recovery limits

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QA/QC Summary Report

Client: Envirocon Inc
Project: BNSF Livingston

Report Date: 12/03/02
Work Order: B02111053

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R18246b
Sample ID: MBLKb113002	Method Blank								12/01/02 15:00
Dichlorodifluoromethane	ND	ug/L	0.500						
1,1-Dichloroethane	ND	ug/L	0.500						
1,2-Dichloroethane	ND	ug/L	0.500						
1,1-Dichloroethene	ND	ug/L	0.500						
cis-1,2-Dichloroethene	ND	ug/L	0.500						
trans-1,2-Dichloroethene	ND	ug/L	0.500						
1,2-Dichloropropane	ND	ug/L	0.500						
cis-1,3-Dichloropropene	ND	ug/L	0.500						
trans-1,3-Dichloropropene	ND	ug/L	0.500						
Methylene chloride	ND	ug/L	0.500						
Tetrachloroethene	ND	ug/L	0.500						
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500						
Trichloroethene	ND	ug/L	0.500						
1,1,1-Trichloroethane	ND	ug/L	0.500						
1,1,2-Trichloroethane	ND	ug/L	0.500						
Trichlorofluoromethane	ND	ug/L	0.500						
Vinyl chloride	ND	ug/L	0.500						
Surr: 1,2-Dichloroethane-d4			0.500	101	74	127			
Surr: p-Bromofluorobenzene			0.500	107	80	120			
Surr: Toluene-d8			0.500	106	80	120			
Method: E624									Batch: R18247
Sample ID: LCS120202	Laboratory Control Spike								12/02/02 11:24
Tetrachloroethene	5.00	ug/L	0.500	100	64	148			
Surr: 1,2-Dichloroethane-d4			0.500	109	74	127			
Surr: p-Bromofluorobenzene			0.500	104	80	120			
Surr: Toluene-d8			0.500	108	80	120			
Sample ID: MBLK120202	Method Blank								12/02/02 11:57
Tetrachloroethene	ND	ug/L	0.500						
Surr: 1,2-Dichloroethane-d4			0.500	107	74	127			
Surr: p-Bromofluorobenzene			0.500	107	80	120			
Surr: Toluene-d8			0.500	106	80	120			

Qualifiers: ND - Not Detected at the Reporting Limit
R - RPD outside of recommended recovery limits
S - Spike Recovery outside of recommended recovery limits

Energy Laboratories Inc

Sample Receipt Checklist

Client Name **ENVRCN-INC** Date and Time Received: **11/21/2002**

Work Order Number **B02111053** Received by jjm

Checklist completed b [signature] 11-21-02 (Signature / Date) Reviewed by _____ (Initials / Date)

Carrier name Bus

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	4 °C
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments:

_____

_____

Corrective Action _____

_____

_____

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ANALYTICAL SUMMARY REPORT

December 04, 2002

Dan McCaffery
Envirocon Inc
PO Box 16655
Missoula, MT 59808

Workorder No.: B02111053 Quote ID: B285

Project Name: BNSF Livingston

Energy Laboratories Inc received the following 4 samples from Envirocon Inc on 11/21/2002 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B02111053-001	1843	11/20/02 9:55	11/21/02	Aqueous	624-Purgeable Organics
B02111053-002	1844	11/20/02 10:30	11/21/02	Aqueous	Same As Above
B02111053-003	1845	11/20/02 11:30	11/21/02	Aqueous	Same As Above
B02111053-004	1846	11/20/02 11:40	11/21/02	Aqueous	Same As Above

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except if noted in report comments or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: Wynn Pippin

Wynn Pippin
Project Manager

Chain of Custody and Analytical Request Record

Page 1 of 1

PLEASE PRINT, provide as much information as possible.
Refer to corresponding notes on reverse side.

Company Name: Enviroscan	Project Name, PWS #, Permit #, Etc.: BNSF Livingston
Report Address: 101 International Way Miles City, MT 59301	Contact Name, Phone, Fax, E-mail: Dan McCaffery (406) 533-1186 // Fax 533-7277 — Sampler Name if other than Contact:
Invoice Address: (same)	Invoice Contact & Phone #: Dan McCaffery (406) 533-1186 — Purchase Order #: — — ELI Quote #: —

Report Required For: POTW/WWTP ☐ DW ☐
Other _____

Special Report Formats – ELI must be notified prior to sample submittal for the following:
NELAC ☐ A2LA ☐ Level IV ☐
Other_____
EDD/EDT ☐ Format_____

Number of Containers
Sample Type: A Air W Water S Soils/Solids V Vegetation U Urine O Other
SEE ATTACHED

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	601 (VOC)										Normal Turnaround (TAT)	RUSH Turnaround (TAT)	Comments:	Lab ID
1	1843	11/30/12	955	2 (A+P) water	X										X			1211053-001
2	1844		1030															002
3	1845		1130															003
4	1841		1140															004
5																		
6																		
7																		
8																		
9																		
10																		

Notify ELI prior to RUSH sample submittal for additional charges and scheduling

Receipt Temp 4 ° C
Cooler ID(s) _____
Custody Seal (Y) N
Intact (Y) N
Signature Match (Y) N

Custody Record MUST be Signed

Relinquished by: Dan McCaffery	Date/Time: 11/21/12 12AM	Shipped by: Bus	Received by: [signature] Date/Time: 11/21/12 16:10
Relinqdished by:	Date/Time:	Shipped by:	Received by: Date/Time:

Sample Disposal: Return to client: _____ Lab Disposal: _____

LABORATORY USE ONLY
Sample Type:_____ # of fractions _____

Visit our website at www.energylab.com for additional information, downloadable checklist forms, links

APPENDIX B

DATA VALIDATION REPORT
FOR GROUND WATER ANALYSES

DATA VALIDATION REPORT FOR GROUND WATER ANALYSES MAY & NOVEMBER 2002 SAMPLING EVENTS

1.0 INTRODUCTION

Groundwater analytical data validation levels have been established in accordance with criteria described in Appendix 1.A, Volume V of the Final Remedial Investigation Report (Envirocon, 1994). Data validation levels and codes for the Livingston Rail Yard project are based on the U.S. Environmental Protection Agency Region VIII guidance, "Evaluation Criteria for Existing Data From CERCLA Study Areas," Revision 1, January 5, 1985. Table 1.0 lists samples collected during the May and November 2001 sampling rounds.

2.0 EVALUATION OF BLANK ANALYSES

Laboratory and field blanks were analyzed for these two sampling rounds as summarized on Table 2.0. All the field blanks were trip blanks, whereas all the laboratory blanks were reagent or method blanks.

Table 2.0
Field and Laboratory Blanks

Sample Number	Sample Type	Laboratory ID #	Sample Date	EPA Method
140101-1794	Trip Blank	B02050729-001	5/14/02	624
N/A	Method Blank	MBLK052102	5/21/02	624
N/A	Method Blank	MBLKA052102	5/21/02	624
140101-1814	Trip Blank	B02050972-004	5/16/02	624
N/A	Method Blank	MBLKa052202	5/23/02	624
N/A	Method Blank	MBLK052402	5/23/02	624
"Trip Blank"	Trip Blank	B02051176-004	5/23/02	524.2
N/A	Method Blank	MBLK-0601A	6/01/02	524.2
140101-1836	Trip Blank	B02110925-008	11/19/02	624
N/A	Method Blank	MBLK113002	11/30/02	624
N/A	Method Blank	MBLKa113002	12/1/02	624
N/A	Method Blank	MBLKb113002	12/1/02	624
N/A	Method Blank	MBLK120202	12/1/02	624

Only 1 trip blank (Sample # -1836) contained detectable analytes: low concentrations of chloroform and bromodichloromethane. In the past, these compounds have not been found in site groundwater, and are assumed to be chlorination by-products of the supermarket-distributed distilled water. No compounds were detected in any laboratory method blanks. Surrogate recoveries were all within acceptable QC limits, except for p-bromofluorobenzene which was slightly out-of-limits in Sample # "Trip Blank". The Laboratory QC Manager stated that, for VOCs, 1 of the 3 surrogate recoveries can be out-of-limits without jeopardizing the analysis. Therefore, no validation level changes will be made to primary samples due to blank analyses.

3.0 EVALUATION OF DUPLICATE ANALYSES

Five sets of field duplicates were analyzed during the May and November 2002 sampling rounds. Table 3.0 summarizes the sample numbers and dates of the duplicate samples.

Table 3.0
Duplicate Sample Analyses

Sample Number	Sample Location	Sample Type	Laboratory ID #	Sample Date	EPA Method
140101-1796	L-87-2	Primary Sample	B02050729-003	5/14/02	624
140101-1797	L-87-2	Field Duplicate	B02050729-004	5/14/02	624
140101-1812	L-88-13	Primary Sample	B02050972-002	5/16/02	624
140101-1813	L-88-13	Field Duplicate	B02050972-003	5/16/02	624
140101-1808	'B' Street	Primary Sample	B02051176-001	5/22/02	524.2
140101-1828	'B' Street	Field Duplicate	B02051176-002	5/22/02	524.2
140101-1833	89-3	Primary Sample	B02110925-005	11/19/02	624
140101-1834	89-3	Field Duplicate	B02110925-006	11/19/02	624
140101-1845	MW-12	Primary Sample	B02111053-003	11/20/02	624
140101-1846	MW-12	Field Duplicate	B02111053-004	11/20/02	624

A single duplicate pair analyte exceeded a relative percent difference of 30% - chlorodibromomethane was detected at concentrations of 0.31 J ppb and 0.20 J ppb in the MW 89-3 duplicate pair. These concentrations are both less than the practical quantitation limit (PQL) and are reported as "estimated values" by the laboratory, i.e. they are already viewed as qualitative. Therefore, no changes to the validation levels of primary samples are necessary due to duplicate analyses.

4.0 EVALUATION OF HOLDING TIMES

All of the samples analyzed by EPA Methods 601 and 524.2 were to be preserved by being acidified to pH values below 2.0. Properly acidified samples can be stored for up to 14 days prior to analysis by EPA Method 624 or 524.2. For these two methods, unpreserved samples can be stored for up to 7 days before analysis. In addition to acidification, the samples were to be further preserved by placing them on ice, thereby maintaining temperatures below 4 degrees centigrade.

All of the samples collected during the May and November 2002 ground water sampling events were adequately preserved and were analyzed within 14 days of sampling.

5.0 EVALUATION OF MATRIX, BLANK, AND SURROGATE SPIKE RESULTS

All matrix spike, blank spike, and surrogate spike recoveries were within acceptable limits except for the following:

- Nil sample matrix spike recovery of 2-chloroethylvinyl ether in three spiked samples (Sample Nos. 1801, 1815, and 1829). The Laboratory's QC Manager states that "2-chloroethylvinyl ether is a highly reactive compound that responds very poorly in a preserved…"real world"…sample. Normally…the laboratory control spike, which is made with lab water, shows a recovery, and the matrix spike of an actual ["real world", preserved] water sample will show a very low or no recovery. This is probably an issue that EPA needs to address when another modification to the method is recommended." Based on the consistent lack of recovery of 2-chloroethylvinyl ether in all 3 sample matrix spikes, this analyte will be downgraded to "qualitative" status for all May and November 2002 samples.

- Slightly excessive recovery of the surrogate p-Bromofluorobenzene in Sample No. 1842. The Laboratory's QC Manager states that "the surrogate compound [recovery] was outside the recommended limit due to sample matrix interference. The sample contained a significant amount of heavier diesel range organics that somewhat suppressed the response for the internal standard associated with the quantitation of the surrogate. This suppression resulted in a higher than normal recovery for the compound. None of the detected target compounds were calculated from this internal standard; therefore the integrity of the detected target compounds is intact." The Laboratory QC Manager also stated that, for VOCs, 1 of the 3 surrogate recoveries can be out-of-limits without jeopardizing the analysis. No validation level change will be made to Sample No. 1842, based on the above.

6.0 MISCELLANEOUS QA/QC EVALUATIONS

(None)

7.0 VALIDATION LEVEL ASSIGNMENTS

All analytical results for the May and November 2002 sampling rounds are acceptable as quantitative data (code 'B'), except those listed on Table 4.0, which have been downgraded to qualitative status (code 'A').

TABLE 4
Analytical Results Degraded to Qualitative Status

Sample Location	Sample Date	Sample Number	Chemical Name	Conc.	Validation Qualifier	Reason
All Samples	May & Nov	(All)	2-chloroethylvinyl ether	<1.0 ug/l	A	M.S. recovery